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OM nucleic - nucleic search, using sw model

Run on: June 21, 2005, 02:55:41 ; Search time 546 Seconds
(without alignments)
170.537 Million cell updates/sec

Title: US-10-075-994A-1
Perfect score: 15
Sequence: 1 gtgctcatgatgc 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 6054689 seqs, 3103772919 residues

Total number of hits satisfying chosen parameters: 12109378

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%

Listing first 45 summaries

Database :

Published Applications NA:*

- 1: /cgn2_6/prodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/prodata/2/pubpna/PCR_NEW_PUB.seq:*
- 3: /cgn2_6/prodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/prodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/prodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/prodata/2/pubpna/PCRTUS_PUBCOMB.seq:*
- 7: /cgn2_6/prodata/2/pubpna/US08_NEW_PUB.seq:*
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- 9: /cgn2_6/prodata/2/pubpna/US09A_PUBCOMB.seq:*
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- 11: /cgn2_6/prodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/prodata/2/pubpna/US09C_NEW_PUB.seq:*
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- 17: /cgn2_6/prodata/2/pubpna/US10F_PUBCOMB.seq:*
- 18: /cgn2_6/prodata/2/pubpna/US10G_PUBCOMB.seq:*
- 19: /cgn2_6/prodata/2/pubpna/US10H_PUBCOMB.seq:*
- 20: /cgn2_6/prodata/2/pubpna/US10I_PUBCOMB.seq:*
- 21: /cgn2_6/prodata/2/pubpna/US10I_PUBCOMB.seq:*
- 22: /cgn2_6/prodata/2/pubpna/US10I_NEW_PUB.seq:*
- 23: /cgn2_6/prodata/2/pubpna/US11A_PUBCOMB.seq:*
- 24: /cgn2_6/prodata/2/pubpna/US60_NEW_PUB.seq:*
- 25: /cgn2_6/prodata/2/pubpna/US60_PUBCOMB.seq:*
- 26: /cgn2_6/prodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	15	100.0	15	9	US-09-930-283A-1
2	15	100.0	15	10	US-09-930-283A-3
3	15	100.0	15	10	US-09-895-480A-15
4	15	100.0	15	15	US-10-290-545-25
5	15	100.0	15	16	US-10-365-623-16
6	15	100.0	15	17	US-10-075-994A-1
7	15	100.0	15	17	US-10-075-994A-3

8	15	100.0	15	17	US-10-075-994A-4	Sequence 4, Appli
9	15	100.0	15	17	US-10-347-924-1	Sequence 1, Appli
10	15	100.0	15	17	US-10-437-263-25	Sequence 25, Appli
11	15	100.0	15	17	US-10-437-275-25	Sequence 25, Appli
12	15	100.0	15	17	US-10-437-258-25	Sequence 25, Appli
13	15	100.0	15	17	US-10-925-734-15	Sequence 15, Appli
14	15	100.0	20	14	US-10-057-550-49	Sequence 49, Appli
15	15	100.0	20	15	US-10-173-225B-47	Sequence 2, Appli
16	15	100.0	25	9	US-09-930-283A-2	Sequence 2, Appli
17	15	100.0	25	17	US-10-075-994A-2	Sequence 1, Appli
18	15	100.0	25	21	US-10-809-189-113549	Sequence 113549,
19	15	100.0	25	21	US-10-809-189-113550	Sequence 113550,
20	15	100.0	165	9	US-09-728-446-1067	Sequence 1067, Ap
21	15	100.0	478	10	US-09-918-995-4443	Sequence 4443, Ap
22	15	100.0	597	16	US-10-029-386-10799	Sequence 10799, A
23	15	100.0	673	13	US-10-027-632-244006	Sequence 244006,
24	15	100.0	673	13	US-10-027-632-244007	Sequence 244007,
25	15	100.0	673	17	US-10-027-632-244006	Sequence 244006,
26	15	100.0	673	17	US-10-027-632-244007	Sequence 244007,
27	15	100.0	968	19	US-10-767-795-1291	Sequence 1291, Ap
28	15	100.0	1161	19	US-10-437-963-36158	Sequence 36158, A
29	15	100.0	2975	16	US-10-440-341-2	Sequence 2, Appli
30	15	100.0	2977	9	US-09-969-347-207	Sequence 207, App
31	15	100.0	2977	10	US-09-963-131-159	Sequence 159, App
32	15	100.0	2977	14	US-10-057-550-25	Sequence 25, Appli
33	15	100.0	2977	15	US-10-173-225B-64	Sequence 64, Appli
34	15	100.0	2977	16	US-10-371-138-1	Sequence 1, Appli
35	15	100.0	2977	21	US-10-843-641A-8336	Sequence 8336, Ap
36	15	100.0	2977	21	US-10-936-273-29	Sequence 29, Appli
37	15	100.0	3228	21	US-10-926-543-44	Sequence 44, Appli
38	15	100.0	76698	21	US-10-936-273-30	Sequence 30, Appli
39	15	100.0	25	21	US-10-809-189-113548	Sequence 113548,
40	14	93.3	223	11	US-09-732-627A-2120	Sequence 2120, Ap
41	14	93.3	223	9	US-10-437-963-4788	Sequence 4788, Ap
42	14	93.3	327	19	US-09-983-965-3423	Sequence 3423, Ap
43	14	93.3	406	20	US-10-425-115-149033	Sequence 149033,
44	14	93.3	475	18	US-10-424-599-103047	Sequence 103047,
45	14	93.3	602	20	US-10-357-930-50238	Sequence 50238, A

ALIGNMENTS

RESULT 1
US-09-930-283A-1
Sequence 1, Application US/09930283A
Patent No. US20020160038A1
GENERAL INFORMATION:
APPLICANT: Kasid, Usha
Gokhale, Prafulla
Dritschilo, Anatoly
Rahman, Aguilu
TITLE OF INVENTION: Liposomes containing Oligonucleotides
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSER: Hendricks and Assoc.
STREET: P.O. Box 2509
CITY: Fairfax
STATE: VA
COUNTRY: US
ZIP: 22031
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/930,283A
FILING DATE: 16-Aug-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/354,109
FILING DATE: 1999-07-15

ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: Kasid
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 591-4470
TELEFAX: (703) 591-4428
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: YES
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-930-283A-1

Query Match 100.0%; Score 15; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15
Db

RESULT 2
US-09-930-283A-3/C
Sequence 3, Application US/09930283A
Patent No. US20020160038A1
GENERAL INFORMATION:
APPLICANT: Kasid, Usha
Gokhale, Prafulla
Dritschilo, Anatoly
Rahman, Aquilar
TITLE OF INVENTION: Liposomes containing oligonucleotides
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hendricks and Assoc.
STREET: P.O. Box 2509
CITY: Fairfax
STATE: VA
COUNTRY: US
ZIP: 22031
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/930,283A
FILING DATE: 16-Aug-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/354,109
FILING DATE: 1998-07-15
ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: Kasid
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 591-4470
TELEFAX: (703) 591-4428
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO

ANTI-SENSE: YES
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-930-283A-3

Query Match 100.0%; Score 15; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
15 GTGCTCCATTGATGC 1
Db

RESULT 3
US-09-895-480A-15
Sequence 15, Application US/09895480A
Publication No. US20030129221A1
GENERAL INFORMATION:
APPLICANT: Inex Pharmaceuticals Inc.
TITLE OF INVENTION: High Efficiency Encapsulation of Charged Therapeutic Agents in Lipid Vesicles
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Oppedahl & Larson LLP
STREET: PO Box 5068
CITY: Dillon
STATE: CO
COUNTRY: US
ZIP: 80435
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MB
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS 5.0
SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/895,480A
FILING DATE: 29-Jun-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: <Unknown>
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: <Unknown>
REGISTRATION NUMBER: <Unknown>
REFERENCE/DOCKET NUMBER: <Unknown>
TELECOMMUNICATION INFORMATION:
TELEPHONE: <Unknown>
TELEFAX: <Unknown>
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 15
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
HYPOTHETICAL: no
ANTI-SENSE: yes
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-895-480A-15

Query Match 100.0%; Score 15; DB 10; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15
Db

RESULT 4
US-10-290-545-25


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; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-075-994A-4
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Query Match          100.0%; Score 15; DB 17; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 GTGCTCCATTGATGC 15
        |||
Db       1 GTGCTCCATTGATGC 15
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RESULT 9

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US-10-347-924-1
; Sequence 1, Application US/10347924
; Publication No. US20030229040A1
; GENERAL INFORMATION:
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```

; APPLICANT: Kasid, Usha
; APPLICANT: Gokhale, Prafulla
; APPLICANT: Zhang, Chuabo
; APPLICANT: Dristschilo, Anatoly
; APPLICANT: Rahman, Aquilur
; TITLE OF INVENTION: CATIONIC LIPOSOMAL DELIVERY SYSTEM AND THERAPEUTIC USE THEREOF
; FILE REFERENCE: 220807
; CURRENT APPLICATION NUMBER: US/10/347,924
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: US 09/354,109
; PRIOR FILING DATE: 1999-07-15
; PRIOR APPLICATION NUMBER: US 08/957,327
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: US 60/041,192
; PRIOR FILING DATE: 1997-03-21
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
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```

; OTHER INFORMATION: Oligonucleotide
US-10-347-924-1
```

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Query Match          100.0%; Score 15; DB 17; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 GTGCTCCATTGATGC 15
        |||
Db       1 GTGCTCCATTGATGC 15
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RESULT 10

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US-10-437-263-25
; Sequence 25, Application US/10437263
; Publication No. US20040009943A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Semple, Sean
; APPLICANT: Tam, Ying K.
; APPLICANT: Chikh, Ghania J.
; TITLE OF INVENTION: PATHOGEN VACCINES AND METHODS FOR USING THE SAME
; FILE REFERENCE: A-72216/TAL
; CURRENT APPLICATION NUMBER: US/10/437,263
; PRIOR FILING DATE: 2003-05-12
; PRIOR APPLICATION NUMBER: 60/379,343
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/460,646
; PRIOR FILING DATE: 2003-04-04
; PRIOR APPLICATION NUMBER: 60/454,298
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; PRIOR FILING DATE: 2003-03-12
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 25
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-437-263-25
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Query Match          100.0%; Score 15; DB 17; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 GTGCTCCATTGATGC 15
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Db       1 GTGCTCCATTGATGC 15
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RESULT 11

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US-10-437-275-25
; Sequence 25, Application US/10437275
; Publication No. US20040009944A1
; GENERAL INFORMATION:
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; APPLICANT: Tam, Ying K.
; APPLICANT: Semple, Sean
; APPLICANT: Klimuk, Sandra
; TITLE OF INVENTION: METYLATED IMMUNOSTIMULATORY OLIGONUCLEOTIDES AND METHODS OF
; FILE REFERENCE: A-72158/TAL
; CURRENT APPLICATION NUMBER: US/10/437,275
; CURRENT FILING DATE: 2003-05-12
; PRIOR APPLICATION NUMBER: 60/379,343
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/460,646
; PRIOR FILING DATE: 2003-04-04
; PRIOR APPLICATION NUMBER: 10/290,545
; PRIOR FILING DATE: 2002-11-07
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 25
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-437-275-25
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Query Match          100.0%; Score 15; DB 17; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 GTGCTCCATTGATGC 15
        |||
Db       1 GTGCTCCATTGATGC 15
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RESULT 12

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US-10-437-258-25
; Sequence 25, Application US/10437258
; Publication No. US20040013649A1
; GENERAL INFORMATION:
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; APPLICANT: Tam, Ying K.
; APPLICANT: Klimuk, Sandra
; APPLICANT: Chikh, Ghania
; TITLE OF INVENTION: CANCER VACCINES AND METHODS OF USING THE SAME
; FILE REFERENCE: A-72252/TAL
; CURRENT APPLICATION NUMBER: US/10/437,258
; PRIOR FILING DATE: 2003-05-12
; PRIOR APPLICATION NUMBER: 60/379,343
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/460,646
; PRIOR FILING DATE: 2003-04-04
; PRIOR APPLICATION NUMBER: 60/454,298
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PRIOR FILING DATE: 2003-03-12
NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn version 3.2
SEQ ID NO: 25
LENGTH: 15
TYPE: DNA
ORGANISM: Homo sapiens
US-10-437-258-25

Query Match 100.0%; Score 15; DB 17; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 13
US-10-925-734-15

Sequence 15, Application US/10925734
Publication No. US2005008689A1
GENERAL INFORMATION:

APPLICANT: Inex Pharmaceuticals Inc.
TITLE OF INVENTION: High Efficiency Encapsulation of Charged
Therapeutic
Agents in
Lipid Vesicles

NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:

ADDRESSER: Oppedahl & Larson LLP
STREET: PO Box 5068
CITY: Dillon
STATE: CO

COUNTRY: US
ZIP: 80435

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS 5.0

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/925,734

FILING DATE: 24-Aug-2004

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/895,480

FILING DATE: 29-Jun-2001

ATTORNEY/AGENT INFORMATION:

NAME: <Unknown>

REGISTRATION NUMBER: <Unknown>

REFERENCE/DOCKET NUMBER: <Unknown>

TELECOMMUNICATION INFORMATION:

TELEPHONE: <Unknown>

TELEFAX: <Unknown>

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 15

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

HYPOTHEICAL: no

ANTI-SENSE: yes

SEQUENCE DESCRIPTION: SEQ ID NO: 15:

US-10-925-734-15

QY

Db 1 GTGCTCCATTGATGC 15

RESULT 14
US-10-057-550-49

Sequence 49, Application US/10057550
Publication No. US20030032607A1
GENERAL INFORMATION:

APPLICANT: Monia, Brett P.

TITLE OF INVENTION: Antisense Oligonucleotide Modulation of raf Gene Expression

FILE REFERENCE:

CURRENT APPLICATION NUMBER: US/10/057,550

FILING DATE: 2002-01-25

PRIOR APPLICATION NUMBER: 09/506,073

PRIOR FILING DATE: 2000-02-18

PRIOR APPLICATION NUMBER: US 09/143,214

PRIOR FILING DATE: 1998-08-28

PRIOR APPLICATION NUMBER: PCT/US98/13961

PRIOR FILING DATE: 1998-07-06

PRIOR APPLICATION NUMBER: US 08/888,982

PRIOR FILING DATE: 1997-07-07

PRIOR APPLICATION NUMBER: US 08/756,806

PRIOR FILING DATE: 1996-11-26

PRIOR APPLICATION NUMBER: PCT/US95/07111

PRIOR FILING DATE: 1995-05-31

PRIOR APPLICATION NUMBER: US 08/250,856

PRIOR FILING DATE: 1994-05-31

NUMBER OF SEQ ID NOS: 130

SEQ ID NO 49

LENGTH: 20

TYPE: DNA

ORGANISM: artificial sequence

FEATURE:

OTHER INFORMATION: antisense sequence

US-10-057-550-49

QY 1 GTGCTCCATTGATGC 15
Db 5 GTGCTCCATTGATGC 19

RESULT 15
US-10-173-225B-47

Sequence 47, Application US/10173225B
Publication No. US20030119769A1
GENERAL INFORMATION:

APPLICANT: Monia, Brett P.

TITLE OF INVENTION: Antisense Oligonucleotide Modulation of raf Gene Expression

FILE REFERENCE: ISPH-0665

CURRENT APPLICATION NUMBER: US/10/173,225B

FILING DATE: 2002-12-06

PRIOR APPLICATION NUMBER: US 10/057,550

PRIOR FILING DATE: 2002-01-25

PRIOR APPLICATION NUMBER: US 09/143,214

PRIOR FILING DATE: 1998-08-28

PRIOR APPLICATION NUMBER: PCT/US98/13961

PRIOR FILING DATE: 1998-07-06

PRIOR APPLICATION NUMBER: US 08/888,982

PRIOR FILING DATE: 1997-07-07

PRIOR APPLICATION NUMBER: US 08/756,806

PRIOR FILING DATE: 1996-11-26

PRIOR APPLICATION NUMBER: PCT/US95/07111

PRIOR FILING DATE: 1995-05-31

PRIOR APPLICATION NUMBER: US 08/250,856

PRIOR FILING DATE: 1994-05-31

NUMBER OF SEQ ID NOS: 109

SEQ ID NO 47

LENGTH: 20

QY

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OM nucleic - nucleic search, using sw model

Run on: June 21, 2005, 03:49:31 ; Search time 427 Seconds
(without alignments)
207.953 Million cell updates/sec

Title: US-10-075-994A-1
Perfect score: 15
Sequence: 1 gtcctcatgcgc 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues
Total number of hits satisfying chosen parameters: 4167226

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N Geneseq_16Dec04:*
1: geneseqn1980s:*
2: geneseqn1990s:*
3: geneseqn2000s:*
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13: geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	15	100.0	15	2 AAV54043	AAV54043 Human ant
2	15	100.0	15	2 AAV99435	AAV99435 Antisense
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4	15	100.0	15	6 AAD22797	AA22797 Human C-r
5	15	100.0	15	9 ACC58517	ACC58517 Oligonuc
6	15	100.0	15	9 ADA24233	ADA24233 Human C-r
7	15	100.0	15	10 ADB97458	ADB97458 Sense (AT
8	15	100.0	15	10 ADB97456	ADB97456 Antisense
9	15	100.0	15	10 ADF82830	ADF82830 Immunost
10	15	100.0	15	12 ADE90171	ADE90171 Human C-r
11	15	100.0	15	12 ADE39690	ADE39690 Oligonuc
12	15	100.0	15	12 ADF32025	ADF32025 Antisense
13	15	100.0	15	12 ADF42926	ADF42926 Methylate
14	15	100.0	15	15 ADI70154	ADI70154 Oligonuc
15	15	100.0	15	13 ADR88950	ADR88950 Anti C-ra
16	15	100.0	20	2 AAT27527	AAT27527 Mouse/rat
17	15	100.0	20	3 AA211557	AA211557 Mouse and
18	15	100.0	20	3 AA73535	AA73535 Mouse and
19	15	100.0	20	6 AAD44760	AAD44760 Mouse/rat
20	15	100.0	20	10 ADF09751	ADF09751 Mouse/rat

21	15	100.0	20	10	ACD42120	ACD42120 Antisense
22	15	100.0	25	10	ADB97457	ADB97457 Oligo use
c 23	13	86.7	17	2	AAV90935	AAV90935 Human C-r
24	13	86.7	20	2	AAT27482	AAT27482 Human C-r
25	13	86.7	20	2	AAT59716	AAT59716 Human raf
26	13	86.7	20	2	AAT62145	AAT62145 Human C-r
27	13	86.7	20	2	AAZ11512	AAZ11512 Human C-r
28	13	86.7	20	3	AAV73490	AAV73490 Human C-r
29	13	86.7	20	6	ADD44715	ADD44715 Human C-r
30	13	86.7	20	10	ADP09706	ADP09706 Human C-r
31	13	86.7	20	10	ACD42073	ACD42073 Antisense
c 32	12.4	82.7	20	2	AAV15555	AAV15555 Position
c 33	12.4	82.7	20	2	AAV15583	AAV15583 Position
c 34	12.4	82.7	20	2	AAV23613	AAV23613 Homo sapi
35	12.4	82.7	20	6	ABI94231	ABI94231 Capture o
36	12.4	82.7	24	6	ABI85032	ABI85032 Capture o
c 37	12.4	82.7	24	6	ABI85033	ABI85033 Capture o
38	12.4	82.7	27	2	AAV93971	AAV93971 Human IL-
39	12	80.0	20	2	AAT27483	AAT27483 Human C-r
c 40	12	80.0	20	2	AAT86617	AAT86617 Rat C-raf
41	12	80.0	20	3	AAZ11513	AAZ11513 Human C-r
42	12	80.0	20	3	AAV92027	AAV92027 C-raf tar
c 43	12	80.0	20	3	AAV92026	AAV92026 C-raf tar
44	12	80.0	20	3	AAV73491	AAV73491 Human C-r
45	12	80.0	20	6	ADD44716	ADD44716 Human C-r

ALIGNMENTS

RESULT 1
AAV54043
ID AAV54043 standard; DNA; 15 BP.
XX
XX AAV54043;
DT 02-DEC-1998 (first entry)
XX
DE Human antisense c-raf-1 oligodeoxyribonucleotide.
XX
XX Human; antisense; c-raf-1; oligodeoxyribonucleotide; ODN/oligo;
KW tumour tissue; cancer; radiation therapy; radiosensitise; antisense;
XX liposome carrier system; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT modified_base 1
FT /note= "N-terminal base is phosphothioated"
FT modified_base 15
FT /tag= b
FT /note= "C-terminal base is phosphothioated"
XX
XX W09843095-A1.
XX PD 01-OCT-1998.
XX PF 19-MAR-1998; 98WO-US005303.
XX PR 21-MAR-1997; 97US-0041192P.
XX PR 24-OCT-1997; 97US-00957327.
XX
XX (GEOU) UNIV GEORGETOWN.
XX Kasid U, Gokhale P, Dritschilo A, Rahman A;
XX WPI; 1998-532155/45.
XX
XX New cationic liposome composition containing raf oligodeoxynucleotide -
XX PT can be used to directly target tumour tissue and is useful in the
XX PT radiation therapy of cancers.

PS Claim 4; Page 21; 25pp; English.

XX This is the nucleotide sequence of the human antisense c-raf-1
CC oligodeoxynucleotide (ODN/oligo), used in the method of the invention
CC to directly target tumour tissue, and in cancer radiation therapy. The
CC products can be used in a method of radiosensitising tumour tissue by
CC addition of an antisense oligonucleotide of maximum 40 bases containing
CC ODN/oligo. The liposome carrier system directly targets tumour tissue and
CC has the potential for use in the radiation therapy of cancers

SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 100.0%; Score 15; DB 2; Length 15;

Best Local Similarity 100.0%; Pred. No. 1.1e+02;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCTCCATTGATGC 15
DB 1 GTGCTCCATTGATGC 15

RESULT 2

AAV99435
ID AAV99435 standard; DNA, 15 BP.

AC AAV99435;

DT 22-MAR-1999 (first entry)

DE Antisense oligonucleotide directed against c-raf-1 protein kinase gene.

XX Antisense oligonucleotide; human c-raf-1 protein kinase gene;

KM phosphorothioate; phosphodiester; lipid-encapsulation; tumour;

XX aberrant gene expression; treatment; inflammation; infection; ss.

OS Synthetic.

OS Homo sapiens.

FT Key Location/Qualifiers
FT modified_base 1..15
FT /*tag= a
FT /note= "phosphorothioate or phosphodiester bonds"

PN WO9851278-A2.

PD 19-NOV-1998.

PF 14-MAY-1998; 98WO-CA000485.

PR 14-MAY-1997; 97US-00856374.

PA (INEX-) INEX PHARM CORP.

PI Sempile SC, Klimuk SK, Harasym T, Hope MJ, Ansell SM, Cullis P;

PI Scherrer P, Debeyer D;

DR WPI; 1999-045179/04.

PT Composition containing lipid-encapsulated therapeutic agent - useful,
PT e.g. for delivering antisense molecules or ribozymes or treating diseases
PT associated with aberrant gene expression.

PS Disclosure; Page 23; 98pp; English.

XX The present sequence represents an antisense oligonucleotide directed
CC against the human c-raf-1 protein kinase gene. The oligonucleotide can
CC have either phosphorothioate or phosphodiester bonds. The oligonucleotide
CC is lipid-encapsulated using the method of the invention. A composition
CC comprising lipid-encapsulated particles of a therapeutic agent, e.g.
CC antisense oligonucleotides, is prepared by mixing at least 2 lipids with
CC buffered aqueous solution of charged therapeutic agent to form an
CC intermediate mixture of lipid-encapsulated particles, and changing the pH
CC of the mixture to neutralise at least some of the external surface

CC charges on the particles. One lipid has a (de)protonatable group with Ka
CC such that the lipid is charged at a first pH but neutral at a second pH
CC (particularly near physiological pH) and the buffer maintains this lipid
CC in the charged form (i.e. cationic when the therapeutic agent is anionic
CC in the buffer, or vice versa). The second lipid prevents particle
CC aggregation during formation of the lipid-therapeutic agent particles.
CC The composition is used to introduce therapeutic agents into cells, in
CC vivo or in vitro, particularly to treat or prevent diseases associated
CC with aberrant gene expression in mammals, specifically tumours,
CC inflammation or infection

SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 100.0%; Score 15; DB 2; Length 15;

Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCTCCATTGATGC 15
DB 1 GTGCTCCATTGATGC 15

RESULT 3

AAZ98661
ID AAZ98661 standard; DNA, 15 BP.

AC AAZ98661;

DT 05-JUN-2000 (first entry)

DE Human c-raf-1 PK therapeutic antisense oligonucleotide sequence ATG-AS.

XX Antisense oligonucleotide; phosphorothioate; inflammatory disease;

KM tumour; gene therapy; aberrant gene expression; treatment;

XX infectious disease; protein kinase C alpha; c-raf-1 protein kinase; ss.

OS Homo sapiens.

FT Key Location/Qualifiers
FT misc_feature 1..15
FT /*tag= a
FT /note= "Optionally phosphorothioate internucleotide
FT linkages"

PN CA2271582-A1.

PD 14-NOV-1999.

PF 13-MAY-1999; 99CA-02271582.

PR 14-MAY-1998; 98US-00078955.

PA (KLIM/) KLIMUK S K.

PA (HARA/) HARASTYM T.

PA (HOPE/) HOPE M J.

PA (ANSE/) ANSELL S M.

PA (CULL/) CULLIS P R.

PA (MOKW/) MOK W K.

PA (SCHE/) SCHERRER P.

PA (SEMP/) SEMPLE S C.

PI Klimuk SK, Harasym T, Hope MJ, Ansell SM, Cullis PR, Mok WK;

PI Scherrer P, Sempile SC;

DR WPI; 2000-225058/20.

XX A method for delivering antisense oligonucleotides to cells using lipid
PT capsules comprising steric barrier lipids.
XX Example 5; Page 57; 99pp; English.
XX This sequence represents an antisense oligonucleotide sequence which has
CC human c-raf-1 protein kinase as its target gene. The oligonucleotide is

used in a method for delivering lipid encapsulated therapeutic agents (i.e. antisense oligonucleotides) to mammals. The lipid capsule comprises steric barrier lipids that prevent particle aggregation during lipid nucleic acid formation. The method may be used for the delivery of therapeutic agents to mammalian cells. It is especially suitable for delivering nucleic acid molecules, and in particular antisense molecules which may be administered to down regulate the expression of aberrant genes. The aberrant gene may be ICAM-1, c-myc, c-mycb, raf, erb-B-2, PKC-alpha, IGF-1R, EGFR, VEGF and/or VEGF-R-1. The method may be used for the treatment of tumours, inflammatory diseases and/or infectious diseases

Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 100.0%; Score 15; DB 3; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15

Db

RESULT 4
AAD2797 standard; DNA; 15 BP.

AAD2797;
26-FEB-2002 (first entry)

Human c-raf-1 protein kinase antisense oligonucleotide, ATG-AS.

Treatment; tumour; lipid-therapeutic agent particle; sphingomyelin; distearylphosphatidylcholine; palmitoylcholeoyl phosphatidylcholine; DSPC; POPC; 1,2-dioleoyl-sn-3-phosphoethanolamine; cholesterol; SM; DOPC; inflammation; c-raf-1 protein kinase gene; human; infectious disease; ss.

Homo sapiens.

Key Location/Qualifiers
modified_base 1..20
/*tag= a
/mod_base= OTHER
/note= "Optionally phosphorothioate backbone"

US6287591-B1.
11-SEP-2001.
14-MAY-1998; 98US-00078954.
14-MAY-1997; 97US-00856374.
(INEX-) INEX PHARM CORP.
Semple SC, Klimuk SK, Haraaym T, Hope MJ, Ansell SM, Cullis P; Scherrer P, Debeyre D;
WPI; 2002-024658/03.
Composition useful for treatment of e.g. tumors comprises particles comprising lipid portion and a charged therapeutic agent.
Disclosure; Col 15-16; 48pp; English.

The invention relates to a composition useful for treatment of e.g. tumours. The composition comprises lipid-therapeutic agent particles comprising a lipid portion and a charged therapeutic agent which is encapsulated in the lipid portion. The lipid portion comprises a first lipid component selected from lipids containing a protonatable or deprotonatable (preferably protonatable) group that has a pKa such that the lipid is in charged form at a first pH and in neutral form at a

second pH. The pKa of lipid component is from 4-11. The first lipid component is further selected such that the charged form is cationic when the therapeutic agent is anionic and vice versa; the second lipid component is selected from lipids that prevent particle aggregation during lipid-therapeutic agent particles formation and which exchange out the lipid particle at a rate greater than PEG-Cerc20; third lipid component is a neutral lipid selected from distearylphosphatidylcholine (DSPC), palmitoylcholeoyl phosphatidylcholine (POPC), 1,2-dioleoyl-sn-3-phosphoethanolamine (DOPC) or SM (sphingomyelin) and a fourth lipid component which is cholesterol. Compositions of the invention are used for treatment or prevention of a disease caused by aberrant expression of a gene preferably ICAM-1 (intracellular adhesion molecule-1), c-myc, c-mycb, raf, erb-B-2, PKC-alpha (phosphokinase C-alpha), IGF-1R (insulin growth factor 1-receptor), bcl-2, EGFR (epidermal growth factor receptor), VEGF and VEGF-R-1 (vascular endothelial growth factor receptor 1) in a mammal or by inflammations such as tumour or an infectious disease. The present sequence is an antisense oligonucleotide targeted to human c-raf-1 protein kinase gene

Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 100.0%; Score 15; DB 6; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15

Db

RESULT 5
ACC58517 standard; DNA; 15 BP.

ACC58517;
26-AUG-2003 (first entry)

Oligonucleotide ODN #25 (hc-Raf1).

Lipid nucleic acid; LNA; mucosal; vaccine; immunostimulant; human; C-Raf-s; ss.

Homo sapiens.

Key Location/Qualifiers
modified_base 1..15
/*tag= a
/mod_base= OTHER
/note= "OTHER= optional phosphorothioate nucleotides"

WO2003039595-A2.
15-MAY-2003.
07-NOV-2002; 2002WO-CA001717.
07-NOV-2001; 2001US-0337522P.
10-MAY-2002; 2002US-0379343P.
(INEX-) INEX PHARM CORP.
Semple S, Klimuk S, Yuan Z;
WPI; 2003-493235/46.
Improved mucosal adjuvant useful in the preparation of vaccine for stimulating an immune response comprises a lipid-nucleic acid formulation containing a nucleic acid component encapsulated by a lipid.
Disclosure; Page 21; 71pp; English.

The present sequence is that of oligodeoxynucleotide ODN #25 (hc-Raf-1)

CC for human C-Raf-s. It is an example of an ODN that can be used in lipid-
CC nucleic acid (LNA) formulations of the invention comprising a lipid
CC component and a nucleic acid component. The invention is based on the
CC discovery that such LNA formulations associated with a target antigen
CC stimulate enhanced mucosal immune responses, especially Iga production,
CC directed to that target antigen in vivo as compared to the target antigen
CC alone or mixed with free or unencapsulated forms of the ODN. Claimed
CC improved mucosal vaccines comprise an LNA formulation with at least one
CC antigen, the LNA formulation comprising a lipid component that
CC encapsulates the nucleic acid component, with the lipid and nucleic acid
CC components acting synergistically to stimulate antigen-specific IgG
CC production in a mammal
XX
SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
QY Query Match 100.0%; Score 15; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02; Mismatches 0; Gaps 0;
Matches 15; Conservative 0; Indels 0; Gaps 0;
Db 1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15

RESULT 6
ADA24233 standard; DNA; 15 BP.
XX ADA24233;
XX 20-NOV-2003 (first entry)
DE Human c-raf-1 protein kinase antisense oligonucleotide SEQ ID NO:16.

KM therapeutic oligonucleotide; double-stranded RNA; dsRNA; mobile protein;
KM cytosolic; immunosuppressive; virucide; anti-HIV; antibacterial;
KM cardiant; hyperproliferation; cancer; haematological; metastatic;
KM autoimmune disease; infection; endocrine; neural; cardiovascular;
KM pulmonary; reproductive system disorder; endocytosis; metabolic process;
KM murine; intracellular adhesion molecule 1; ICM-1;
KM antisense oligonucleotide; phosphorothioate; ss.

OS Synthetic.
XX Homo sapiens.

XX Key Location/Qualifiers
FT modified_base 1..15
FT /*tag= a
FT /mod_base= OTHER
FT /note= "optionally phosphorothioate backbone"
XX PN WO2003069306-A2.

XX PD 21-AUG-2003.

XX PF 13-FEB-2003; 2003MO-US004323.

XX PR 13-FEB-2002; 2002US-0356053P.

XX PA (MEDB-) MEDBRIDGE INC.

XX PI Xie D;

XX WPI; 2003-646491/61.

XX Treating diseases with oligonucleotides or interfering RNA, useful e.g.
PT for cancer or autoimmune diseases, covalently coupled to mobile proteins,
PT in vivo or in vitro.

XX Claim 128; Page 12; 42pp; English.

XX The present invention describes a method for treating a disease by
CC administering: (a) a therapeutic oligonucleotide (TON) or double-stranded

CC RNA (dsRNA) that includes a reactive group (RG) that can react with a
CC mobile protein (MP) to form a covalent conjugate of TON/dsRNA and MP; or
CC (b) TON or dsRNA already conjugated to MP through a covalent bond. Also
CC described: (1) TON of 15-30 bases that includes (i) a part that binds to
CC target RNA or DNA and (ii) RG; (2) TON or 15-30 bases that includes a
CC part that binds to target RNA or DNA and is conjugated to MP through a
CC covalent link; (3) dsRNA that includes RG; and (4) dsRNA that is
CC conjugated to MP through a covalent link. TON have cytosolic,
CC immunosuppressive, virucide, anti-HIV, antibacterial and cardiant
CC activities. The method is used to treat, or prevent, hyperproliferation
CC (particularly cancers, solid or haematological, including prevention of
CC metastatic spread), autoimmune diseases, viral or bacterial infections;
CC endocrine, neural, cardiovascular, pulmonary or reproductive system
CC disorders. Also where TON or dsRNA are labelled, they can be used for
CC diagnosis and monitoring of therapy. When linked to a mobile protein,
CC TON/dsRNA have better cell entry (via endocytosis or other parts of the
CC mobile protein metabolic process) and longer therapeutic life, increased
CC from hours to weeks (the result of increased resistance to nuclease),
CC without loss of affinity for the target. In many cases immune response to
CC TON/dsRNA is also reduced, as is non-specific binding to endogenous
CC proteins. The present sequence represents a human c-raf-1 antisense
CC oligonucleotide, which is a specifically claimed TON from the present
CC invention.
XX
SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

QY Query Match 100.0%; Score 15; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02; Mismatches 0; Gaps 0;
Matches 15; Conservative 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 7
ADB97458/c
ID ADB97458 standard; DNA; 15 BP.

XX ADB97458;

XX 04-DEC-2003 (first entry)

XX Sense (ATG-S) raf ODN oligodeoxyribonucleotide.

KM antisense; ATG-S; raf ODN; chemosensitisation; tumour tissue;
KM chemotherapeutic agent; cationic liposome; cationic lipid;
KM phosphatidylcholine; cholesterol; liposome;
KM dimethyldioctadecyl ammonium bromide; DDAB;
KM dimyristoyl trimethyl ammonium propane; DMTAP; phosphatidylcholine; PC;
KM cholesterol; cancer; leukaemia; lymphoma; myeloma; carcinoma; sarcoma;
KM combination therapy; pre-cancerous lesion; chemotherapy; ss.

XX Unidentified.

XX OS Identifed.

XX PN WO2003070221-A1.

XX PD 28-AUG-2003.

XX PF 14-FEB-2003; 2003MO-US004681.

XX PR 15-FEB-2002; 2002US-00075994.

XX PA (GEOU) UNIV GEORGETOWN.
XX (NEOP-) NEOPHARM INC.

XX Kasid U, Gokhale P, Pel J, Mewani R, Ahmad I, Drischilo A;
PI Rahman A;

XX WPI; 2003-689738/65.

XX Chemosensitization of tumor tissue, useful for treating cancer, e.g.
PT leukemia, lymphoma or myeloma, comprises administering a chemotherapeutic

PT agent and cationic liposomes containing oligonucleotides.
XX
PS Example 1; Page 18; 77pp; English.
XX
CC The invention relates to a novel method for the chemosensitisation of
CC tumour tissue, comprising administering a chemotherapeutic agent and a
CC composition comprising cationic liposomes consisting of cationic lipid,
CC phosphatidylcholine and cholesterol, where oligonucleotide(s) are
CC encapsulated within the liposome. The invention further relates to a
CC composition comprising liposomes consisting essentially of a cationic
CC lipid like dimethyldioctadecyl ammonium bromide (DDAB) or dimyristoyl
CC trimethyl ammonium propane (DMTAP), phosphatidylcholine (PC),
CC cholesterol, and containing the sequence 5'- GTGCTCCATTGATGC -3', where
CC only the terminal sequences are phosphorothioated. The method is useful
CC for chemosensitisation of a tumour tissue or cancer, including leukaemia,
CC lymphoma, myeloma, carcinoma or sarcoma. The combination therapy may be
CC used for any stage of cancer ranging from pre-cancerous lesions to cancer
CC of advanced stages. This polynucleotide sequence represents the sense
CC (ATG-S) raf ODN oligodeoxyribonucleotide, a cationic liposome of the
CC invention.
XX
SQ Sequence 15 BP; 5 A; 4 C; 4 G; 2 T; 0 U; 0 Other;
XX
Query Match 100.0%; Score 15; DB 10; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 GTGCTCCATTGATGC 15
Db 15 GTGCTCCATTGATGC 1
XX
RESULT 8
ADB97456
XX ADB97456 standard; DNA; 15 BP.
XX
AC ADB97456;
XX
DT 04-DEC-2003 (first entry)
XX
DE Antisense (ATG-AS) raf ODN oligodeoxyribonucleotide.
XX
OS antisense; ATG-AS; raf ODN; chemosensitisation; tumour tissue;
KM chemotherapeutic agent; cationic liposome; cationic lipid;
KM phosphatidylcholine; cholesterol; liposome;
KM dimethyldioctadecyl ammonium bromide; DDAB;
KM dimyristoyl trimethyl ammonium propane; DMTAP; phosphatidylcholine; PC;
KM cholesterol; cancer; leukaemia; lymphoma; myeloma; carcinoma; sarcoma;
KM combination therapy; pre-cancerous lesion; chemotherapy; ss.
XX
OS unidentified.
XX
PN WO2003070221-A1.
XX
PD 28-AUG-2003.
XX
PF 14-FEB-2003; 2003WO-US004681.
XX
PR 15-FEB-2002; 2002US-00075994.
XX
PA (GEOU) UNIV GEORGETOWN.
XX (NEOP-) NEOPHARM INC.
XX
PI Kaaid U, Gokhale P, Pei J, Mewani R, Ahmad I, Drischilo A;
PI Rahman A;
XX
DR WPI, 2003-689738/65.
XX
PT Chemosensitization of tumor tissue, useful for treating cancer, e.g.
PT leukemia, lymphoma or myeloma, comprises administering a chemotherapeutic
PT agent and cationic liposomes containing oligonucleotides.
XX
PS Example 1; Page 18; 77pp; English.

XX
CC The invention relates to a novel method for the chemosensitisation of
CC tumour tissue, comprising administering a chemotherapeutic agent and a
CC composition comprising cationic liposomes consisting of cationic lipid,
CC phosphatidylcholine and cholesterol, where oligonucleotide(s) are
CC encapsulated within the liposome. The invention further relates to a
CC composition comprising liposomes consisting essentially of a cationic
CC lipid like dimethyldioctadecyl ammonium bromide (DDAB) or dimyristoyl
CC trimethyl ammonium propane (DMTAP), phosphatidylcholine (PC),
CC cholesterol, and containing the sequence 5'- GTGCTCCATTGATGC -3', where
CC only the terminal sequences are phosphorothioated. The method is useful
CC for chemosensitisation of a tumour tissue or cancer, including leukaemia,
CC lymphoma, myeloma, carcinoma or sarcoma. The combination therapy may be
CC used for any stage of cancer ranging from pre-cancerous lesions to cancer
CC of advanced stages. This polynucleotide sequence represents the antisense
CC (ATG-AS) raf ODN oligodeoxyribonucleotide, a cationic liposome of the
CC invention.
XX
SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
XX
Query Match 100.0%; Score 15; DB 10; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15
XX
RESULT 9
ADF82830
XX ADF82830 standard; DNA; 15 BP.
XX
AC ADF82830;
XX
DT 26-FEB-2004 (first entry)
XX
DE Immunostimulant ODN25, component of lipid-nucleic acid vaccine.
XX
KM Immunostimulant; vaccine; lipid-nucleic acid; phosphorothioate; human;
KM C-Raf-s; ss.
XX
OS Synthetic.
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT modified_base 1..15
FT /tag= a
FT /mod_base= OTHER
FT /note= "OTHER= optional phosphorothioate nucleotides"
XX
PN WO2003094829-A2.
XX
PD 20-NOV-2003.
XX
PF 12-MAY-2003; 2003WO-CA000680.
XX
PR 10-MAY-2002; 2002US-0379343P.
PR 07-NOV-2002; 2002US-00290545.
PR 12-MAR-2003; 2003US-0454298P.
XX
PA (INEX-) INEX PHARM CORP.
XX
PI Semple S, Chikh G, Hope MJ, Tam YK;
PI WPI, 2003-903935/82.
XX
DR WPI, 2003-903935/82.
XX
PT New pathogen vaccine having a lipid-nucleic acid formulation in
PT combination with at least one microbial antigen, useful for stimulating
PT enhanced responses against bacterial, viral and parasitic infections.
XX
PS Disclosure; SEQ ID NO 25; 138pp; English.
XX

CC The present sequence is that of ODN25 (C-Raf-s) for human C-Raf-s. This
CC is an immunostimulatory oligonucleotide that can be used in lipid-nucleic
CC acid (LNA) vaccines of the invention. Claimed vaccines comprise an LNA
CC formulation in combination with at least one microbial antigen, such as
CC hepatitis B virus surface antigen. The lipid component of the LNA
CC comprises at least one cationic lipid. The oligonucleotide component of
CC the LNA preferably comprises at least one CpG dinucleotide, a methylated
CC cytosine and a phosphorothioate backbone. The vaccine is capable of
CC stimulating Th1 type humoral and cellular immune responses. An enhanced
CC humoral response is demonstrated by a strong early peak of interferon-
CC gamma production observed within hours of vaccine followed by a second
CC stronger peak of interferon-gamma production observed several days later,
CC correlated with antibody isotype switching.

CC Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 100.0%; Score 15; DB 10; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 10
ADE390171

ID ADE390171 standard; DNA; 15 BP.

AC ADE390171;

DT 12-FEB-2004 (first entry)

DE Human c-raf-1 protein kinase antisense oligonucleotide.

XX ss; lipid-encapsulated therapeutic agent particle;
KW aberrant gene expression; intercellular adhesion molecule; ICAM-1; c-myc;
KW c-myc; ras; raf; erb-B-2; protein kinase C; PKC-alpha;
KW insulin-like growth factor; IGF-IR; epidermal growth factor receptor;
KW EGFR; vascular endothelial growth factor; VEGF; VEGF-R-1; tumour;
KW inflammation; infection; antisense; human.

XX Homo sapiens.

OS US2003129221-A1.

XX 10-JUL-2003.

XX 29-JUN-2001; 2001US-00895480.

XX 14-MAY-1997; 97US-00856374.

XX 14-MAY-1998; 98US-00078954.

XX (SEMP/) SEMPLE S C.

XX (KLIM/) KLIMUK S K.

XX (HARA/) HARASYM T.

XX (HOPE/) HOPE M J.

XX (ANSE/) ANSELL S M.

XX (CULL/) CULLIS P.

XX (SCHE/) SCHERRER P.

XX (DEBE/) DEBEYER D.

XX Semple SC, Klimuk SK, Harasym T, Hope MJ, Ansell SM, Cullis P;
XX Scherrer P, Debeuyer D,
XX WPI; 2004-031296/03.

XX Preparation of a composition comprising lipid-encapsulated therapeutic
XX agent particles, useful for introducing a nucleic acid into a cell and
XX for treating diseases characterized by aberrant gene expression.
XX Disclosure, SEQ ID NO 15, 52pp; English.

CC The invention relates to a method of preparation of a composition
CC comprising lipid-encapsulated therapeutic agent particles. The
CC composition is useful for introducing a nucleic acid into a cell and for
CC treating diseases characterized by aberrant gene expression (especially
CC intercellular adhesion molecule (ICAM)-1, c-myc, c-myc, ras, raf erb-B-2,
CC protein kinase C (PKC)-alpha, insulin-like growth factor (IGF)-IR,
CC epidermal growth factor receptor (EGFR), vascular endothelial growth
CC factor (VEGF) or VEGF-R-1), e.g. tumours, inflammation or infection. The
CC present sequence represents an antisense oligonucleotide.

CC Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 100.0%; Score 15; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 11
ADE39690

ID ADE39690 standard; DNA; 15 BP.

AC ADE39690;

DT 12-FEB-2004 (first entry)

DE Oligonucleotide ODN 25 (hC-Raf-1) SEQ ID NO:25.

XX cancer; vaccine; lipid-nucleic acid; LNA; tumour-associated antigen;

XX Th-1 based immune response; cytostatic; gene therapy;

XX tumour growth inhibition; tumour; human; ss.

XX Synthetic.

OS Homo sapiens.

XX Homo sapiens.

XX Key location/Qualifiers

XX modified_base 1..15

XX /*tag= a

XX /mod_base= OTHER

XX /note= "optionally phosphorothioate linkages"

XX WO2003094828-A2.

XX 20-NOV-2003.

XX 12-MAY-2003; 2003WO-CA000679.

XX 10-MAY-2002; 2002US-0379343P.

XX 07-NOV-2002; 2002US-00290545.

XX 04-APR-2003; 2003US-0460646P.

XX (INEX-) INEX PHARM CORP.

XX Tam YK, Semple S, Klimuk S, Chikh G;

XX WPI; 2004-011992/01.

XX New cancer vaccine having a lipid-nucleic acid formulation in combination
XX with at least one tumor-associated antigen, useful for stimulating
XX enhanced responses against tumor-associated antigens and for inhibiting
XX tumor growth.
XX Example 9, SEQ ID NO 25, 119pp; English.

XX The present invention describes a cancer vaccine (I), which comprises a
XX lipid-nucleic acid (LNA) formulation in combination with at least one
XX tumour-associated antigen that is mixed with or associated with the LNA
XX formulation comprising a lipid component having at least one cationic
XX lipid, and a nucleic acid component comprising at least one
XX oligonucleotide, where the vaccine is capable of stimulating a Th-1 based

CC immune response in vivo to the at least one tumour-associated antigen.
CC (1) has cytostatic activity, and can be used in vaccines, and in gene
CC therapy. The method and compositions of the present invention can be
CC used for stimulating enhanced responses against tumour-associated
CC antigens and for inhibiting tumour growth. The present sequence
CC represents an oligonucleotide which is used in the exemplification of the
CC present invention.
XX
SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
Query Match 100.0%; Score 15; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 12
ADP32025
ID ADF32025 standard; DNA; 15 BP.
XX
AC ADF32025;
XX
DT 26-FEB-2004 (first entry)
DE Antisense oligonucleotide of the invention.
XX
KM platelet; oligonucleotide; Thrombolytic; thrombocytosis; ss.
XX
OS Synthetic.
XX
PN WO2003099213-A2.
XX
PD 04-DEC-2003.
XX
PF 19-MAY-2003; 2003WO-US015922.
XX
PR 20-MAY-2002; 2002US-0382411P.
XX
PA (NEOP-) NEOPHARM INC.
XX
PI Gately ST;
XX
DR WPI; 2004-035033/03.
XX
PT Reducing the platelet count in a patient, useful for treating
PT thrombocytosis, comprises administering antisense oligonucleotides
PT inhibiting raf-1 gene with an agent that enhances penetration of the
PT oligonucleotide into cells.
XX
PS Example 1; SEQ ID NO 1; 14pp; English.
XX
CC The present invention relates to reducing the platelet count in a patient
CC comprises preparing a formulation of an oligonucleotide with an agent
CC that enhances penetration of the oligonucleotide into cells, and
CC administering the formulation to a patient having an elevated platelet
CC count. The oligonucleotide is useful for preparing a medicated platelet
CC reducing the platelet count in a patient, particularly for treating
CC thrombocytosis. The present sequence represents an oligonucleotide of the
CC invention.
XX
SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
Query Match 100.0%; Score 15; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 13
ADP42926
ID ADF42926 standard; DNA; 15 BP.
XX
AC ADF42926;
XX
DT 11-MAR-2004 (first entry)
DE Methylated immunostimulatory oligonucleotide ODN 25 SEQ ID NO:25.
XX
KM lipid-methylated nucleic acid formulation; immune response;
KM lipid-nucleic acid; vaccine; immunostimulant; cytostatic;
KM antiinflammatory; antiarthritic; gene therapy; cancer; inflammation;
KM arthritis; immunodeficiency disorder;
KM methylated immunostimulatory oligonucleotide; ss.
XX
OS Synthetic.
XX
PN WO2003094963-A2.
XX
PD 20-NOV-2003.
XX
PF 12-MAY-2003; 2003WO-CA000678.
XX
PR 10-MAY-2002; 2002US-0379343P.
PR 07-NOV-2002; 2002US-00290545.
PR 04-APR-2003; 2003US-0460646P.
XX
PA (INEX-) INEX PHARM CORP.
XX
PI Tam YK, Sempke S, Klimuk S, Chikh G;
XX
DR WPI; 2004-142698/14.
XX
PD
PT lipid-methylated nucleic acid formulation for stimulating an immune
PT response in an animal comprises a lipid component and a nucleic acid
PT component comprising a methylated nucleic acid sequence.
XX
PS Disclosure; SEQ ID NO 25; 102pp; English.
XX
CC The present invention describes a lipid-methylated nucleic acid
CC formulation for stimulating an immune response in an animal, comprising a
CC lipid component and a nucleic acid component which is a methylated
CC nucleic acid sequence. Also described: (1) an adjuvant comprising a lipid
CC -nucleic acid (LNA) formulation; (2) a vaccine comprising the LNA
CC formulation in combination with at least one target antigen; (3)
CC stimulating an enhanced host immune response to antigenic stimulation,
CC comprising administering to the host the LNA formulation; (4) stimulating
CC host dendritic cells in vivo, comprising contacting at least one
CC dendritic cell with the lipid-methylated nucleic acid formulation to a
CC host; and (5) simultaneously delivering antigenic and adjuvant immune
CC stimulation to antigen presenting cells, comprising the administration of
CC the LNA formulation associated with a target antigen. The lipid-
CC methylation nucleic acid formulation has immunostimulant, cytostatic,
CC antiinflammatory and antiarthritic activities, and can be used in
CC vaccines, and in gene therapy. The formulation and methods are useful in
CC stimulating a host's immune response to antigenic stimulation, or in
CC activating and/or expanding dendritic cell populations in response to
CC antigenic stimulation. They may be used for treating cancer,
CC inflammation, arthritis or immunodeficiency disorders. The present
CC sequence represents a methylated immunostimulatory oligonucleotide given
CC in the exemplification of the present invention.
XX
SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
Query Match 100.0%; Score 15; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

```

XX RESULT 14
XX ADL70154
XX ID ADL70154 standard; DNA; 15 BP.
XX AC ADL70154;
XX DT 20-MAY-2004 (first entry)
XX DE Oligonucleotide antisense to raf.
XX KW Raf; antisense; liposome; drug delivery; cytostatic; ss.
XX OS Synthetic.
XX PN WO2004017944-A1.
XX PD 04-MAR-2004.
XX PF 13-AUG-2003; 2003WO-US025293.
XX PR 23-AUG-2002; 2002US-0405378P.
XX PA (NEOP-) NEOPHARM INC.
XX PI Zhang J, Ahmad I;
XX WPI; 2004-257219/24.
XX PT Treatment of cellular proliferative disease e.g. cancer involves
XX administration of a composition comprising liposomal gemcitabine and
XX negatively charged phospholipid.
XX PS Disclosure; SEQ ID NO 1; 25bp; English.
XX CC The present sequence is that of an antisense oligonucleotide to raf. The
XX invention relates to novel gemcitabine compositions and their use in
XX treating proliferative diseases such as cancer, particularly in mammals,
XX especially in humans. The compositions include liposome-entrapped
XX gemcitabine. The cancer is especially lymphoma, ovarian cancer, breast
XX cancer, pancreatic cancer, lung cancer or colon cancer. The liposomal
XX gemcitabine compositions can be used in conjunction with secondary
XX therapeutic agents including antineoplastic, antifungal and antibiotic
XX agents as well as antisense oligonucleotides, especially an antisense
XX oligonucleotide to raf (claimed).
XX SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 100.0%; Score 15; DB 12; Length 15;
XX Best Local Similarity 100.0%; Pred. No. 1.1e+02;
XX Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 GTGCTCCATTGATGC 15
XX ||||||||||||
XX 1 GTGCTCCATTGATGC 15
XX
XX Db
XX
XX RESULT 15
XX ADR88950
XX ID ADR88950 standard; DNA; 15 BP.
XX AC ADR88950;
XX DT 18-NOV-2004 (first entry)
XX DE Anti c-raf-1 oligonucleotide.
XX KW C-raf-1; liposomal; antineoplastic; cytostatic; cancer; antisense; ss.
XX OS Synthetic.
XX PN WO2004071466-A2.
XX

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```

XX PD 26-AUG-2004.
XX PF 11-FEB-2004; 2004WO-US004555.
XX PR 11-FEB-2003; 2003US-0446895P.
XX PA (NEOP-) NEOPHARM INC.
XX PI Bhamidipati S, Ahmad Z, Ahmad I;
XX WPI; 2004-635030/61.
XX DR
XX PT Preparation of liposomal composition used for treating e.g. cancer
XX involves dissolving lipid fraction in water miscible organic solvent and
XX mixing solvent solution with aqueous solution.
XX PS Disclosure; Page 6; 27pp; English.
XX CC The invention relates to the preparation of a liposomal composition. The
XX method involves: dissolving a lipid fraction in a water-miscible organic
XX solvent; and mixing the water-miscible organic solvent solution
XX comprising the lipid fraction with an aqueous solution under conditions
XX to form a bulk liposomal composition. The method further involves adding
XX at least one active principal to the water-miscible organic solvent prior
XX to the addition of the lipid fraction, or to the aqueous solution prior,
XX during or after the step (b), size-reducing the bulk liposomal
XX composition to obtain a size-reduced liposomal composition, freeing the
XX liposomal composition of the water-miscible organic solvent by
XX diafiltration using a tangential flow filtration process and sterile
XX filtration, sterile-filtering the liposomal composition and freeze-drying
XX the liposomal preparation. Step (b) involves adding the water-miscible
XX organic solvent solution to the aqueous solution while mixing and mixing
XX of solution following addition of water-miscible solvent comprising the
XX lipid fraction to the aqueous solution while cooling. The active
XX principal comprises at least one antineoplastic or antifungal agent
XX (preferably taxane, camptothecin or their derivatives, especially
XX paclitaxel or docetaxel). The composition is used for the treatment of
XX disease e.g. cancer. The composition eliminates the disease or its
XX symptoms, need not completely eradicate the effects of the disease,
XX reduces the severity of a disease, infection or reduction in the rate by
XX which a disease progresses within a patient. The method permits the
XX production of liposomal formulation on a commercial scale. The present
XX sequence represents an antisense oligonucleotide specific for c-raf-1,
XX that can be used as an active principal.
XX SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 100.0%; Score 15; DB 13; Length 15;
XX Best Local Similarity 100.0%; Pred. No. 1.1e+02;
XX Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 GTGCTCCATTGATGC 15
XX ||||||||||||
XX 1 GTGCTCCATTGATGC 15
XX
XX Db
XX

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Search completed: June 21, 2005, 05:32:37
Job time : 431 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 21, 2005, 03:52:11 ; Search time 1686 Seconds
(without alignments)
431.096 Million cell updates/sec

Title: US-10-075-994A-1
Perfect score: 15
Sequence: 1 gtgctccattgatgc 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues
Total number of hits satisfying chosen parameters: 1839042

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenBml:*

1: gb_ba:*

2: gb_htg:*

3: gb_in:*

4: gb_cm:*

5: gb_ov:*

6: gb_pat:*

7: gb_ph:*

8: gb_pl:*

9: gb_pr:*

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11: gb_sts:*

12: gb_sy:*

13: gb_un:*

14: gb_vl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	15	100.0	15	6	AR110775 Sequence
2	15	100.0	15	6	AR110777 Sequence
3	15	100.0	15	6	AR167449 Sequence
4	15	100.0	15	6	CQ789712 Sequence
5	15	100.0	15	6	AR310685 Sequence
6	15	100.0	15	6	AR310687 Sequence
7	15	100.0	15	6	AX979662 Sequence
8	15	100.0	15	6	AX957646 Sequence
9	15	100.0	15	6	AX957740 Sequence
10	15	100.0	15	6	AX958145 Sequence
11	15	100.0	15	6	BD106498 Sequence
12	15	100.0	20	6	AR073978 Sequence
13	15	100.0	20	6	AR216002 Sequence
14	15	100.0	25	6	AR110776 Sequence
15	15	100.0	25	6	AR310686 Sequence
16	14	93.3	35	10	AB112659S1
17	13	86.7	20	6	AR073933 Sequence
18	13	86.7	20	6	AR105501 Sequence
19	13	86.7	20	6	E49512 Antisense O

20	13	86.7	20	6	127232 Sequence 2
21	13	86.7	20	6	AR215955 Sequence
22	12.4	82.7	20	6	AR037100 Sequence
23	12.4	82.7	20	6	AR070338 Sequence
24	12.4	82.7	20	6	AX294189 Sequence
25	12.4	82.7	21	6	AX598466 Sequence
26	12.4	82.7	24	6	AX289556 Sequence
27	12.4	82.7	27	6	AR039324 Sequence
28	12.4	82.7	43	6	CQ749113 Sequence
29	12	80.0	20	6	AR073934 Sequence
30	12	80.0	20	6	AR106990 Sequence
31	12	80.0	20	6	AR106991 Sequence
32	12	80.0	20	6	E49513 Antisense O
33	12	80.0	20	6	127233 Sequence 3
34	12	80.0	20	6	AR215956 Sequence
35	12	80.0	22	6	AR493387 Sequence
36	11.8	78.7	26	6	A16281 Oligonucleo
37	11.8	78.7	27	6	A16267 Oligonucleo
38	11.8	78.7	27	6	A16267 Oligonucleo
39	11.8	78.7	27	6	AR080410 Sequence
40	11.8	78.7	27	6	AR092534 Sequence
41	11.8	78.7	27	6	AR122889 Sequence
42	11.8	78.7	27	6	AR123544 Sequence
43	11.8	78.7	27	6	AR148361 Sequence
44	11.8	78.7	30	6	AR069912 Sequence
45	11.8	78.7	33	6	BD014421 Method fo

ALIGNMENTS

RESULT 1	AR110775	Sequence 1 from patent US 6126965.	15 bp	DNA	linear	PAT 14-FEB-2001
LOCUS	AR110775	Sequence 1 from patent US 6126965.	15 bp	DNA	linear	PAT 14-FEB-2001
DEFINITION	AR110775	Sequence 1 from patent US 6126965.	15 bp	DNA	linear	PAT 14-FEB-2001
ACCESSION	AR110775	Sequence 1 from patent US 6126965.	15 bp	DNA	linear	PAT 14-FEB-2001
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REFERENCE	AR110775.1	GI:12827623	15 bp	DNA	linear	PAT 14-FEB-2001
AUTHORS	AR110775.1	GI:12827623	15 bp	DNA	linear	PAT 14-FEB-2001
TITLE	AR110775.1	GI:12827623	15 bp	DNA	linear	PAT 14-FEB-2001
JOURNAL	AR110775.1	GI:12827623	15 bp	DNA	linear	PAT 14-FEB-2001
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Db	AR110775.1	GI:12827623	15 bp	DNA	linear	PAT 14-FEB-2001
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DEFINITION	AR110777	Sequence 3 from patent US 6126965.	15 bp	DNA	linear	PAT 14-FEB-2001
ACCESSION	AR110777	Sequence 3 from patent US 6126965.	15 bp	DNA	linear	PAT 14-FEB-2001
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ORGANISM	AR110777.1	GI:12827625	15 bp	DNA	linear	PAT 14-FEB-2001
REFERENCE	AR110777.1	GI:12827625	15 bp	DNA	linear	PAT 14-FEB-2001
AUTHORS	AR110777.1	GI:12827625	15 bp	DNA	linear	PAT 14-FEB-2001
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1 (bases 1 to 15)	AR110777.1	GI:12827625	15 bp	DNA	linear	PAT 14-FEB-2001
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JOURNAL Patent: US 6126965-A 3 03-OCT-2000;
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ORIGIN

Query Match 100.0%; Score 15; DB 6; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
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Db 15 GTGCTCCATTGATGC 1

RESULT 3
LOCUS AR167449 15 bp DNA linear PAT 17-DEC-2001
DEFINITION Sequence 15 from patent US 6287591.
ACCESSION AR167449
VERSION AR167449.1 GI:17903229
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Semple,S.C., Klimuk,S.K., Harasym,T., Hope,M.J., Ansell,S.M.,
Challis,P., Scherrer,P. and Debever,D.
TITLE Charged therapeutic agents encapsulated in lipid particles
JOURNAL Patent: US 6287591-A 15 11-SEP-2001;
FEATURES Location/Qualifiers
source 1..15
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ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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|||||
Db 1 GTGCTCCATTGATGC 15

RESULT 4
LOCUS CQ789712 15 bp DNA linear PAT 29-MAR-2004
DEFINITION Sequence 1 from Patent WO2004017944.
ACCESSION CQ789712
VERSION CQ789712.1 GI:45823264
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Zhang,J.A. and Ahmad,I.
TITLE Liposomal gemcitabine compositions for better drug delivery
JOURNAL Patent: WO 2004017944-A 1 04-MAR-2004;
FEATURES Location/Qualifiers
source 1..15
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Anti-rai-oligonucleotides"
ORIGIN

Query Match 100.0%; Score 15; DB 6; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
|||||
Db 1 GTGCTCCATTGATGC 15

RESULT 5
LOCUS AR310685 15 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 1 from patent US 6559129.
ACCESSION AR310685
VERSION AR310685.1 GI:31703829
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
AUTHORS Kasid,U., Gokhale,P., Zhang,C., Dritschilo,A. and Rahman,A.
TITLE Cationic liposomal delivery system and therapeutic use thereof
JOURNAL Patent: US 6559129-A 1 06-MAY-2003;
FEATURES Location/Qualifiers
source 1..15
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ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
|||||
Db 1 GTGCTCCATTGATGC 15

RESULT 6
LOCUS AR310687/c 15 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 3 from patent US 6559129.
ACCESSION AR310687
VERSION AR310687.1 GI:31703831
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
AUTHORS Kasid,U., Gokhale,P., Zhang,C., Dritschilo,A. and Rahman,A.
TITLE Cationic liposomal delivery system and therapeutic use thereof
JOURNAL Patent: US 6559129-A 3 06-MAY-2003;
FEATURES Location/Qualifiers
source 1..15
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/mol_type="genomic DNA"
ORIGIN

Query Match 100.0%; Score 15; DB 6; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
|||||
Db 15 GTGCTCCATTGATGC 1

RESULT 7
LOCUS AX797662 15 bp DNA linear PAT 04-OCT-2003
DEFINITION Sequence 25 from Patent WO03039595.
ACCESSION AX797662
VERSION AX797662.1 GI:37518090
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
TITLE 1
JOURNAL Sempke, S., Klimuk, S. and Yuan, Z.N.
Mucosal adjuvants comprising an oligonucleotide and a cationic lipid
Patent: WO 03039595-A 25 15-MAY-2003;
Inex Pharmaceuticals Corp. (CA)
FEATURES location/Qualifiers
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN

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Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 8
LOCUS AX957646 15 bp DNA linear PAT 08-JAN-2004
DEFINITION Sequence 25 from Patent WO03094963.
ACCESSION AX957646
VERSION AX957646.1 GI:40785518
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1
AUTHORS Tan, Y.K., Sempke, S., Klimuk, S. and Chikh, G.
TITLE Methylated immunostimulatory oligonucleotides and methods of using
JOURNAL the same
FEATURES Patent: WO 03094963-A 25 20-NOV-2003;
Inex Pharmaceuticals Corporation (CA)
source location/Qualifiers
1..15
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 100.0%; Score 15; DB 6; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 9
LOCUS AX957740 15 bp DNA linear PAT 08-JAN-2004
DEFINITION Sequence 25 from Patent WO03094828.
ACCESSION AX957740
VERSION AX957740.1 GI:40785558
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1
AUTHORS Tam, Y.K., Sempke, S., Klimuk, S. and Chikh, G.
TITLE Cancer vaccines and methods of using the same
JOURNAL Patent: WO 03094828-A 25 20-NOV-2003;
Inex Pharmaceuticals Corp. (CA)

FEATURES location/Qualifiers
source 1..15
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 10
LOCUS AX958145 15 bp DNA linear PAT 08-JAN-2004
DEFINITION Sequence 25 from Patent WO03094829.
ACCESSION AX958145
VERSION AX958145.1 GI:40785809
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1
AUTHORS Sempke, S., Chikh, G., Hope, M.J. and Tam, Y.K.
TITLE Pathogen vaccines and methods for using the same
JOURNAL Patent: WO 03094829-A 25 20-NOV-2003;
Inex Pharmaceuticals Corp. (CA)
FEATURES location/Qualifiers
1..15
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCCATTGATGC 15
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Db 1 GTGCTCCATTGATGC 15

RESULT 11
LOCUS BD106498 15 bp DNA linear PAT 18-SEP-2002
DEFINITION High efficiency encapsulation of charged therapeutic agents in lipid vesicles.
ACCESSION BD106498
VERSION BD106498.1 GI:23201316
KEYWORDS UP 2002501511-A/15.
SOURCE Chlamydia sp.
ORGANISM Chlamydia
REFERENCE 1 (bases 1 to 15)
AUTHORS Sempke, S.C., Klimuk, S.K., Harasym, T., Hope, M.J., Ansel, S.M., Cullis, P., Scherrer, P. and Debever, D.S.
TITLE High efficiency encapsulation of charged therapeutic agents in lipid vesicles
JOURNAL Patent: JP 2002501511-A 15 15-JAN-2002;
INEX PHARMACEUTICALS CORP
COMMENT JP 2002501511-A/15
PD 15-JAN-2002
PF 14-MAY-1998 JP 1998548646
PI SEAN C SEMPE, SANDRA K KLIMUK, TROY HARASYM, MICHAEL J HOPE, PI
PI PETER CULLIS, PETER SCHERRER, DAN SUITE DEBEVER PC A61K9/00
CC Strandedness: Single;

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CC Topology: Linear;
FH Key Location/Qualifiers.
FEATURES             source
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    /db_xref="taxon:35827"
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Query Match          100.0%; Score 15; DB 6; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
    |||
    1 GTGCTCCATTGATGC 15

Db 1 GTGCTCCATTGATGC 15

RESULT 12
AR073978          20 bp      DNA      linear      PAT 28-AUG-2000
LOCUS             AR073978
DEFINITION        Sequence 47 from patent US 5952229.
ACCESSION         AR073978
VERSION           AR073978.1 GI:10000738
KEYWORDS          .
SOURCE            Unknown.
ORGANISM          Unclassified.
REFERENCE          1 (bases 1 to 20)
AUTHORS           Monia,B.P. and Boggs,R.T.
TITLE             Antisense oligonucleotide modulation of raf gene expression
JOURNAL           Patent: US 5952229-A 47 14-SEP-1999;
FEATURES          1..20
SOURCE            /organism="unknown"
                  /mol_type="unassigned DNA"
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Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
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    5 GTGCTCCATTGATGC 19

Db 5 GTGCTCCATTGATGC 19

RESULT 13
AR216002          20 bp      DNA      linear      PAT 25-SEP-2002
LOCUS             AR216002
DEFINITION        Sequence 49 from patent US 6410518.
ACCESSION         AR216002
VERSION           AR216002.1 GI:23314290
KEYWORDS          .
SOURCE            Unknown.
ORGANISM          Unclassified.
REFERENCE          1 (bases 1 to 20)
AUTHORS           Monia,B.P.
TITLE             Antisense oligonucleotide inhibition of raf gene expression
JOURNAL           Patent: US 6410518-A 49 25-JUN-2002;
FEATURES          1..20
SOURCE            /organism="unknown"
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Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
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    1 GTGCTCCATTGATGC 15

Db 1 GTGCTCCATTGATGC 15

Query Match          100.0%; Score 15; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
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Db 5 GTGCTCCATTGATGC 19

RESULT 14
AR110776          25 bp      DNA      linear      PAT 14-FEB-2001
LOCUS             AR110776
DEFINITION        Sequence 2 from patent US 6126965.
ACCESSION         AR110776
VERSION           AR110776.1 GI:12827624
KEYWORDS          .
SOURCE            Unknown.
ORGANISM          Unclassified.
REFERENCE          1 (bases 1 to 25)
AUTHORS           Kasid,U., Gokhale,P., Dritschilo,A. and Rahman,A.
TITLE             Liposomes containing oligonucleotides
JOURNAL           Patent: US 6126965-A 2 03-OCT-2000;
FEATURES          Location/Qualifiers
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                  /mol_type="unassigned DNA"
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Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
    |||
    8 GTGCTCCATTGATGC 22

Db 8 GTGCTCCATTGATGC 22

RESULT 15
AR310686          25 bp      DNA      linear      PAT 12-JUN-2003
LOCUS             AR310686
DEFINITION        Sequence 2 from patent US 6559129.
ACCESSION         AR310686
VERSION           AR310686.1 GI:31703830
KEYWORDS          .
SOURCE            Unknown.
ORGANISM          Unclassified.
REFERENCE          1 (bases 1 to 25)
AUTHORS           Kasid,U., Gokhale,P., Zhang,C., Dritschilo,A. and Rahman,A.
TITLE             Cationic liposomal delivery system and therapeutic use thereof
JOURNAL           Patent: US 6559129-A 2 06-MAY-2003;
FEATURES          Location/Qualifiers
SOURCE            1..25
                  /organism="unknown"
                  /mol_type="genomic DNA"
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Query Match          100.0%; Score 15; DB 6; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
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    8 GTGCTCCATTGATGC 22

Db 8 GTGCTCCATTGATGC 22

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 21, 2005, 06:01:03 ; Search time 6157 Seconds
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Title: US-10-075-994A-1

Perfect score: 15
Sequence: 1 gtcgtcatcgtatgc 15

Scoring table: IDENTITY_NUC
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	15	100.0	15	15	US-10-290-545-25
5	15	100.0	15	16	US-10-365-623-16
6	15	100.0	15	17	US-10-075-994A-1
7	15	100.0	15	17	US-10-075-994A-3

8	15	100.0	15	17	US-10-075-994A-4	Sequence 4, Appli
9	15	100.0	15	17	US-10-347-924-1	Sequence 1, Appli
10	15	100.0	15	17	US-10-437-263-25	Sequence 25, Appli
11	15	100.0	15	17	US-10-437-275-25	Sequence 25, Appli
12	15	100.0	15	17	US-10-437-258-25	Sequence 25, Appli
13	15	100.0	15	17	US-10-925-734-15	Sequence 15, Appli
14	15	100.0	20	15	US-10-057-550-49	Sequence 49, Appli
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27	12.4	82.7	25	21	US-10-719-900-59921	Sequence 59921, Appli
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43	12	80.0	20	14	US-10-280-600-6	Sequence 6, Appli
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ALIGNMENTS

RESULT 1
US-09-930-283A-1
; Sequence 1, Application US/09930283A
; Patent No. US20020160038A1
GENERAL INFORMATION:
APPLICANT: Kasid, Usha
Gokhale, Prafulla
Ditechhilo, Anatoly
Rahman, Agulur
TITLE OF INVENTION: Liposomes containing Oligonucleotides
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hendricks and Assoc.
STREET: P.O. Box 2509
CITY: Fairfax
STATE: VA
COUNTRY: US
ZIP: 22031
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/930,283A
FILING DATE: 16-Aug-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/354,109
FILING DATE: 1999-07-15

ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 591-4470
TELEFAX: (703) 591-4428
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: YES
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-930-283A-1

Query Match 100.0%; Score 15; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 2
US-09-930-283A-3/C
Sequence 3, Application US/09930283A
Patent No. US20020160038A1
GENERAL INFORMATION:
APPLICANT: Kasid, Usha
Gokhale, Prafulla
Dritschilo, Anatoly
Rahman, Aquilur
TITLE OF INVENTION: Liposomes containing Oligonucleotides
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hendricks and Assoc.
STREET: P.O. Box 2509
CITY: Fairfax
STATE: VA
COUNTRY: US
ZIP: 22031
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/930,283A
FILING DATE: 16-Aug-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/354,109
FILING DATE: 1999-07-15
ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: Kasid
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 591-4470
TELEFAX: (703) 591-4428
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO

ANTI-SENSE: YES
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-930-283A-3

Query Match 100.0%; Score 15; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 3
US-09-895-480A-15
Sequence 15, Application US/09895480A
Publication No. US20030129221A1
GENERAL INFORMATION:
APPLICANT: Inex Pharmaceuticals Inc.
TITLE OF INVENTION: High Efficiency Encapsulation of Charged Therapeutic Agents in Lipid Vesicles
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Oppedahl & Larson LLP
STREET: PO Box 5068
CITY: Dillon
STATE: CO
COUNTRY: US
ZIP: 80435
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MB
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS 5.0
SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/895,480A
FILING DATE: 29-Jun-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: <Unknown>
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: <Unknown>
REGISTRATION NUMBER: <Unknown>
REFERENCE/DOCKET NUMBER: <Unknown>
TELECOMMUNICATION INFORMATION:
TELEPHONE: <Unknown>
TELEFAX: <Unknown>
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 15
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
HYPOTHETICAL: no
ANTI-SENSE: yes
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-895-480A-15

Query Match 100.0%; Score 15; DB 10; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 4
US-10-290-545-25


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/ LENGTH: 15
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic
US-10-075-994A-4
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Query Match      100.0%; Score 15; DB 17; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      1 GTGCTCCATTGATGC 15
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RESULT 9

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US-10-347-924-1
/ Sequence 1, Application US/10347924
/ Publication No. US20030229040A1
/ GENERAL INFORMATION:
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/ APPLICANT: Kasid, Usha
/ APPLICANT: Gokhale, Prafulla
/ APPLICANT: Zhang, Chuando
/ APPLICANT: Driscillo, Anatoly
/ APPLICANT: Rahman, Aquilur
/ TITLE OF INVENTION: CATIONIC LIPOSOMAL DELIVERY SYSTEM AND THERAPEUTIC USE THEREOF
/ FILE REFERENCE: 220807
/ CURRENT APPLICATION NUMBER: US/10/347,924
/ CURRENT FILING DATE: 2003-01-21
/ PRIOR APPLICATION NUMBER: US 09/354,109
/ PRIOR FILING DATE: 1999-07-15
/ PRIOR APPLICATION NUMBER: US 08/957,327
/ PRIOR FILING DATE: 1997-10-24
/ PRIOR APPLICATION NUMBER: US 60/041,192
/ PRIOR FILING DATE: 1997-03-21
/ NUMBER OF SEQ ID NOS: 1
/ SOFTWARE: PatentIn version 3.2
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/ SEQ ID NO 1
/ LENGTH: 15
/ TYPE: DNA
/ ORGANISM: Artificial
/ FEATURE:
/ OTHER INFORMATION: Oligonucleotide
US-10-347-924-1
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Query Match      100.0%; Score 15; DB 17; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      1 GTGCTCCATTGATGC 15
Db      1 GTGCTCCATTGATGC 15
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RESULT 10

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US-10-437-263-25
/ Sequence 25, Application US/10437263
/ Publication No. US20040009943A1
/ GENERAL INFORMATION:
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/ APPLICANT: Semple, Sean
/ APPLICANT: Tam, Ying K.
/ APPLICANT: Chikh, Ghania
/ APPLICANT: Hope, Michael J.
/ TITLE OF INVENTION: PATHOGEN VACCINES AND METHODS FOR USING THE SAME
/ FILE REFERENCE: A-72216/TAL
/ CURRENT APPLICATION NUMBER: US/10/437,263
/ CURRENT FILING DATE: 2003-05-12
/ PRIOR APPLICATION NUMBER: 60/379,343
/ PRIOR FILING DATE: 2002-05-10
/ PRIOR APPLICATION NUMBER: 60/460,646
/ PRIOR FILING DATE: 2003-04-04
/ PRIOR APPLICATION NUMBER: 60/454,298
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/ PRIOR FILING DATE: 2003-03-12
/ NUMBER OF SEQ ID NOS: 34
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 25
/ LENGTH: 15
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-437-263-25
```

```
Query Match      100.0%; Score 15; DB 17; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 GTGCTCCATTGATGC 15
Db      1 GTGCTCCATTGATGC 15
```

RESULT 11

```
US-10-437-275-25
/ Sequence 25, Application US/10437275
/ Publication No. US20040009944A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Tam, Ying K.
/ APPLICANT: Semple, Sean
/ APPLICANT: Klimuk, Sandra
/ APPLICANT: Chikh, Ghania
/ TITLE OF INVENTION: METHYLATED IMMUNOSTIMULATORY OLIGONUCLEOTIDES AND METHODS OF USING THE SAME
/ FILE REFERENCE: A-72158/TAL
/ CURRENT APPLICATION NUMBER: US/10/437,275
/ CURRENT FILING DATE: 2003-05-12
/ PRIOR APPLICATION NUMBER: 60/379,343
/ PRIOR FILING DATE: 2002-05-10
/ PRIOR APPLICATION NUMBER: 60/460,646
/ PRIOR FILING DATE: 2003-04-04
/ PRIOR APPLICATION NUMBER: 10/290,545
/ PRIOR FILING DATE: 2002-11-07
/ NUMBER OF SEQ ID NOS: 32
/ SOFTWARE: PatentIn version 3.2
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```
/ SEQ ID NO 25
/ LENGTH: 15
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-437-275-25
```

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Query Match      100.0%; Score 15; DB 17; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 GTGCTCCATTGATGC 15
Db      1 GTGCTCCATTGATGC 15
```

RESULT 12

```
US-10-437-258-25
/ Sequence 25, Application US/10437258
/ Publication No. US20040013649A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Tam, Ying K.
/ APPLICANT: Semple, Sean
/ APPLICANT: Klimuk, Sandra
/ APPLICANT: Chikh, Ghania
/ TITLE OF INVENTION: CANCER VACCINES AND METHODS OF USING THE SAME
/ FILE REFERENCE: A-72252/TAL
/ CURRENT APPLICATION NUMBER: US/10/437,258
/ CURRENT FILING DATE: 2003-05-12
/ PRIOR APPLICATION NUMBER: 60/379,343
/ PRIOR FILING DATE: 2002-05-10
/ PRIOR APPLICATION NUMBER: 60/460,646
/ PRIOR FILING DATE: 2003-04-04
/ PRIOR APPLICATION NUMBER: 60/454,298
```

PRIOR FILING DATE: 2003-03-12
NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn version 3.2
SEQ ID NO 25
LENGTH: 15
TYPE: DNA
ORGANISM: Homo sapiens
US-10-437-258-25

Query Match 100.0%; Score 15; DB 17; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCATTTGATGC 15
Db 1 GTGCTCATTTGATGC 15

RESULT 13

US-10-925-734-15
Sequence 15, Application US/10925734
Publication No. US2005008689A1

GENERAL INFORMATION:

APPLICANT: Inex Pharmaceuticals Inc.
TITLE OF INVENTION: High Efficiency Encapsulation of Charged
Therapeutic
Agents in
Lipid Vesicles

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: Oppedahl & Larson LLP

STREET: PO Box 5068

CITY: Dillon

STATE: CO

COUNTRY: US

ZIP: 80435

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS 5.0

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/925,734

FILING DATE: 24-Aug-2004

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/895,480

FILING DATE: 29-Jun-2001

ATTORNEY/AGENT INFORMATION:

NAME: <Unknown>

REGISTRATION NUMBER: <Unknown>

REFERENCE/DOCKET NUMBER: <Unknown>

TELECOMMUNICATION INFORMATION:

TELEPHONE: <Unknown>

TELEFAX: <Unknown>

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 15

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

HYPOTHEICAL: no

ANTI-SENSE: yes

SEQUENCE DESCRIPTION: SEQ ID NO: 15:

US-10-925-734-15
Query Match 100.0%; Score 15; DB 21; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GTGCTCATTTGATGC 15

Db 1 GTGCTCATTTGATGC 15

RESULT 14

US-10-057-550-49
Sequence 49, Application US/10057550
Publication No. US20030032607A1

GENERAL INFORMATION:

APPLICANT: Monia, Brett P.

TITLE OF INVENTION: Antisense Oligonucleotide Modulation of raf Gene Expression

FILE REFERENCE:

CURRENT APPLICATION NUMBER: US/10/057,550

PRIOR FILING DATE: 2002-01-25

PRIOR APPLICATION NUMBER: 09/506,073

PRIOR FILING DATE: 2000-02-18

PRIOR APPLICATION NUMBER: US 09/143,214

PRIOR FILING DATE: 1998-08-28

PRIOR APPLICATION NUMBER: PCT/US98/13961

PRIOR FILING DATE: 1998-07-06

PRIOR APPLICATION NUMBER: US 08/888,982

PRIOR FILING DATE: 1997-07-07

PRIOR APPLICATION NUMBER: US 08/756,806

PRIOR FILING DATE: 1996-11-26

PRIOR APPLICATION NUMBER: PCT/US95/07111

PRIOR FILING DATE: 1995-05-31

PRIOR APPLICATION NUMBER: US 08/250,856

PRIOR FILING DATE: 1994-05-31

NUMBER OF SEQ ID NOS: 130

SEQ ID NO 49

LENGTH: 20

TYPE: DNA

ORGANISM: artificial sequence

FEATURE:

OTHER INFORMATION: antisense sequence

US-10-057-550-49

Query Match 100.0%; Score 15; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCATTTGATGC 15
Db 5 GTGCTCATTTGATGC 19

RESULT 15

US-10-173-225B-47
Sequence 47, Application US/10173225B
Publication No. US20030119769A1

GENERAL INFORMATION:

APPLICANT: Monia, Brett P.

TITLE OF INVENTION: Antisense Oligonucleotide Modulation of raf Gene Expression

FILE REFERENCE: ISPH-0665

CURRENT APPLICATION NUMBER: US/10/173,225B

PRIOR FILING DATE: 2002-12-06

PRIOR APPLICATION NUMBER: US 10/057,550

PRIOR FILING DATE: 2002-01-25

PRIOR APPLICATION NUMBER: US 09/143,214

PRIOR FILING DATE: 1998-08-28

PRIOR APPLICATION NUMBER: PCT/US98/13961

PRIOR FILING DATE: 1998-07-06

PRIOR APPLICATION NUMBER: US 08/888,982

PRIOR FILING DATE: 1997-07-07

PRIOR APPLICATION NUMBER: US 08/756,806

PRIOR FILING DATE: 1996-11-26

PRIOR APPLICATION NUMBER: PCT/US95/07111

PRIOR FILING DATE: 1995-05-31

PRIOR APPLICATION NUMBER: US 08/250,856

PRIOR FILING DATE: 1994-05-31

NUMBER OF SEQ ID NOS: 109

SEQ ID NO 47

LENGTH: 20


```

RESULT 1
AA434107/c
LOCUS
DEFINITION
AA434107
2924bp,1 nt Soares ovary tumor NbHOT RNA
IMAGE:770185 3' similar to TR:G556217 G556217 SPLICEOSOMAL PROTEIN
; mRNA sequence.
ACCESSION
AA434107
VERSION
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 40)
Hillier,L., Allen,M., Bowles,L., Dubuque,T., Geisels,G., Jost,S.,
Kucab,T., Lacy,M., Le,N., Lennon,G., Marie,M., Martin,J.,
Moore,B., Schellenberg,K., Stepcoe,M., Tan,F., Theising,B.,
White,Y., Wylie,T., Waterston,K. and Wilson,R.
Washu-Merck EST Project 1997
Unpublished (1997)
COMMENT
TITLE
JOURNAL
CONTACT: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LINT ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: -41m3 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1. 40
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="GDB:5980060"
/db_xref="taxon:9606"
/clone="IMAGE:770185"
/sex="Female"
/tissue_type="Ovarian tumor"
/lab_host="DH10B (ampicillin resistant)"
/clone_lib="Soares ovary tumor NbHOT"
/notes="Organ: ovary; Vector: pTR73D (Pharmacia) with a
modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st
strand cDNA with a Not I - oligo(dT) primer (5
TGTACCACTGAAGTGAGGCGCGCGGTTTATTTTATTTT 3',

```

double-stranded cDNA was size selected, ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pT713 vector (Pharmacia). Library constructed by Bento Soares and J. Fatima Bonaldo. "

ORIGIN

Query Match	82.7%	Score 12.4	DB 1	Length 40
Best Local Similarity	92.9%	Pred. No. 2e+04		
Matches 13	Conservative 0	Mismatches 1	Indels 0	Gaps 0
QY	2	TGCTCCATTGATGC	15	
	17	TGCTCCATTGATGC	4	

RESULT 2

LOCUS	41 bp	linear	GSS 30-JUN-2004
CL213712			
AC037E07	GATC	Gene Trap Library	GVO3C04 Mus musculus CDNA clone
AC037E07		RNA sequence.	
CL213712			
ACCESSION	CL213712.2	GI:49489570	
VERSION			
KEYWORDS	GSS.		
SOURCE	Mus musculus	(house mouse)	
ORGANISM	Mus musculus		

REFERENCE

AUTHORS	TITLE	JOURNAL
Hansen, U., Floss, H., Van Sloun, P., Fuchsdauer, E.M., Vauti, F., Arnold, H.H., Schüttgen, P., Wüster, W., Von Melchner, H., and Rätz, P.	A large-scale, gene-driven mutagenesis approach for the functional analysis of the mouse genome	Proc. Natl. Acad. Sci. U.S.A. 100 (17), 9918-9922 (2003)

MEDLINE 22810117

PUBMED	12904583
COMMENT	On Jun 30, 2004 this sequence version replaced gi:40730613

```
Email: info@genetrapp.de
prlibsgsco gene trap. Sequence tag generated by 5'RACE. Additional
sequence information can be found at:
'http://genetrapp.gsf.de/project/web_new/database/result_clone.html?
clone_id=A037P07'. ES cell line harboring insertion mutation of
target gene is available at:
'http://genetrapp.gsf.de/project/web_new/order_clones/howtoorder.htm
l'. Inhouse Sequence Identifier: 09103
class: Gene Trap.
```

FEATURES

```
1..41
/organism="Mus musculus"
/mol_type="mRNA"
/strain="129 Sv"
/db_xref="taxon:10090"
/clone="PA037F07"
/sex="Male"
/cell_type="Embryonic stem cell"
/cell_line="ES cells 129S2 (formerly 129/SvPas)"
/clone_lib="G8rc Gene Trap Library GV03C04"
/note="Vector: pRbEtap"
```

ORIGIN

	Query Match	82.7%	Score 12.4	DB 9	Length 41
	Best Local Similarity	92.9%	Pred. No. 2e+04		
	Matches 13; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0.
OY	2 TGCTCATTGATGC	15			
Dd	21 TGCTCATTCATGC	8			

RESULT 3

CW509288/C

LOCUS	CM509288	41 bp	mRNA	linear	GSS 06-OCT-2004
DEFINITION	BR4434 BayGenomics Gene Trap Library pGTL1xf Mus musculus cDNA, mRNA sequence.				
ACCESSION	CM509288				
VERSION	CM509288.1	GI:53838793			
KEYWORDS	GSS.				
SOURCE	Mus musculus (house mouse)				
ORGANISM	Mus musculus				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.				
REFERENCE	1 (bases 1 to 41)				
AUTHORS	BayGenomics.				
TITLE	http://baygenomics.ucsf.edu/				
JOURNAL	unpublished (2001)				
COMMENT	Contact: BayGenomics				

FEATURES

Email: info@baygenomics.ucsf.edu
Sequence tags generated by 5' RAGE of total RNA from gene trap ES cell line. ES cell lines harboring insertion mutation of target gene are available upon request from Baygenomics. Annotation information available from
http://baygenomics.ucsf.edu/cgi-bin/BaySearch.py?POTON=EXACTTYPE=CELL_LINER&Y=BGA434
class: Gene Trap.

source

```
1..41
/organism="Mus musculus"
/mol_type="mRNA"
/strain="129 Ola"
/db_xref="taxon:10090"
/bex="Male"
/cell_type="Embryonic stem cell"
/clone_id="Bsgenomics Gene Trap Library pGRL1K"
/notes="vector: pGRL1K"
```

ORIGIN

Query Match	82.7%	Score 12.4;	DB 9;	Length 41;
Best Local Similarity	92.9%	Pred. No. 2e+04;		
Matches 13;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;

Qy

```

2  TGCCTCCATTGATGC 15
   |||||
24 TGCTCCATTGATGC 11

```

RESULT 4

CC894144/c	CC894144	43 bp	mRNA	linear	GSS 02-SEP-2003
LOCUS					
DEFINITION	RRK138 BmyGenomics Gene Trap Library pGT2Lxf1 Mus musculus cDNA,				

ACCESSION	CC894144
VERSION	CC894144.2
KEYWORDS	GI:34408991
SOURCE	GSS.
	Mus musculus (house mouse)

ORGANISM

REFERENCE
AUTHORS
BayGenomics.
1 (bases 1 to 43)

TITLE

JOURNAL Unpublished (2001)
COMMENT On Sep 2, 2003 this sequence version replaced gi:33392557.

COMMENT

Contact: BayGenomics
Bay Area Functional Genomics Consortium (BayGenomics)
Email: info@baygenomics.ucsf.edu
Sequence tag generated by 5' RACE of total RNA from gene trap ES
cell line. ES cell lines harboring insertion mutation of target
gene are available upon request from BayGenomics. Annotation
information available from
[http://baygenomics.ucsf.edu/cgi-bin/BaySearch.py?OPTION=EXACTTYPE&
CELL_LINEKEY=RRK138](http://baygenomics.ucsf.edu/cgi-bin/BaySearch.py?OPTION=EXACTTYPE&CELL_LINEKEY=RRK138)
Class: Gene trap.

FEATURES

Location/Qualifiers

```

SOURCE
1. .43
/organism="Mus musculus"
/mol_type="mRNA"
/strain="129 Ola"
/db_xref="taxon:10090"
/sex="Male"
/cell_type="Embryonic stem cell"
/clone_lib="BayGenomics Gene Trap Library pGT2Lxf"
/vector="pGT2Lxf"

ORIGIN
Query Match      82.7%   Score 12.4; DB 9; Length 43;
Best Local Similarity 92.9%   Pred. No. 2e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 TGCTCCATTGATGC 15
        |||||
        26 TGCTCCATTGATGC 13

RESULT 5
CC200383      47 bp  mRNA  linear  GSS 09-MAY-2003
LOCUS      CC200383/c
DEFINITION  RRE120 BayGenomics Gene Trap Library pGT2Lxf Mus musculus cDNA,
            mRNA sequence.
ACCESSION  CC200383
VERSION    CC200383.1 GI:30480146
KEYWORDS   GSS.
SOURCE     Mus musculus (house mouse)
ORGANISM   Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
            BayGenomics.
            http://baygenomics.ucsf.edu/
            Unpublished (2001)
JOURNAL    Contact: BayGenomics
            Bay Area Functional Genomics Consortium (BayGenomics)
            Email: info@baygenomics.ucsf.edu
            Sequence tag generated by 5' RACE of total RNA from gene trap ES
            cell line. ES cell lines harboring insertion mutation of target
            gene are available upon request from BayGenomics. Annotation
            information available from
            http://baygenomics.ucsf.edu/cgi-bin/BaySearch.py?OPTION=EXACTTYPE=
            CELT,LINEKEY=RRE120
            Class: Gene Trap.
FEATURES
SOURCE
1. .47
/organism="Mus musculus"
/mol_type="mRNA"
/strain="129 Ola"
/db_xref="taxon:10090"
/sex="Male"
/cell_type="Embryonic stem cell"
/clone_lib="BayGenomics Gene Trap Library pGT2Lxf"
/vector="pGT2Lxf"

ORIGIN
Query Match      82.7%   Score 12.4; DB 8; Length 47;
Best Local Similarity 92.9%   Pred. No. 2.1e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 TGCTCCATTGATGC 15
        |||||
        30 TGCTCCATTGATGC 17

RESULT 6
CL659092/c
LOCUS      CL659092
DEFINITION  PRI0133a.G11 - PRI0133a.B21.1 (32) Mixed stage foemid library of P.
            pacificus var. California Pristionchus pacificus genomic, genomic
            survey sequence.

```

```

ACCESSION  CL659092
VERSION    CL659092.1 GI:50142802
KEYWORDS   GSS.
SOURCE     Pristionchus pacificus
ORGANISM   Pristionchus pacificus
            Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;
            Neodiplogasteridae; Pristionchus.
            1 (base 1 to 32)
            Strinvaasen,U., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J.
            AppadB: an Acedb database for the nematode satellite organism
            Pristionchus pacificus
            Nucleic Acids Res. 32 (1), D421-D422 (2004)
            Contact: Sommer RJ
            Evolutionary Biology
            Max-Planck-Institute for Developmental Biology
            Spemannstr. 37-39, Tuebingen D-72076, Germany
            Tel: 00497071601371
            Fax: 00497071601498
            Email: ralf.sommer@tuebingen.mpg.de
            This library was generated at Caltech, Pasadena, USA and end
            sequenced at Vancouver, Canada.
            Seq primer: T7
            Class: fosmid ends.
FEATURES
SOURCE
1. .32
/organism="Pristionchus pacificus"
/mol_type="genomic DNA"
/strain="California"
/db_xref="taxon:54126"
/clone_lib="Mixed stage foemid library of P. pacificus
            var. California"
/vector="pBpifos-5 Fosmid vector"

ORIGIN
Query Match      78.7%   Score 11.8; DB 9; Length 32;
Best Local Similarity 86.7%   Pred. No. 4.4e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GTGCTCCATTGATGC 15
        |||||
        29 GTGCTCCATTGATGC 15

RESULT 7
AG190569
LOCUS      AG190569
DEFINITION  Pan troglodytes DNA, clone: RP43-066B21.TV, genomic survey
            sequence.
ACCESSION  AG190569
VERSION    AG190569.1 GI:45222745
KEYWORDS   GSS.
SOURCE     Pan troglodytes (chimpanzee)
ORGANISM   Pan troglodytes
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pan.
            1
            Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J.,
            Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.
            BAC end sequences of library RP-43
            Unpublished
            2 (bases 1 to 27)
            Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J.,
            Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.
            Direct Submission
            Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of
            Bioscience and Biotechnology (KRIIB), Genome Research Center (GRC);
            52, Oun-dong, Yusong-gu, Daejeon 305-333, Korea
            (E-mail:redetone@mail.kribb.re.kr, URL:http://pns.grc.kribb.re.kr/,
            Tel:82-42-866-7181, Fax:82-42-860-4409)
            Clones are derived from the chimpanzee BAC library RP-43 This BAC
            end was generated during the R&D process and may have higher chance
            of clone tracking errors.
            PRIMERS
COMMENT

```

Sequencing: T7

LIBRARY : PBACe3.6
Vector : EcoRI
R.Site 1 : EcoRI
R.Site 2 : EcoRIFEATURES
source
Location/Qualifiers

1. .27
/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
/clone="RP43-066B21.T7"
/sex="male"
/cell_type="lymphocytes"
/clone_lib="RP-43 Chimpanzee Male BAC library"

ORIGIN

Query Match 73.3%; Score 11; DB 9; Length 27;
Best Local Similarity 100.0%; Pred. No. 1.3e+05;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCCATTG 11
|||
16 GTGCTCCATTG 26

RESULT 8 39 bp DNA linear GSS 13-DEC-2000
A2579181
LOCUS A2579181
DEFINITION clone UUCGCM0365G10 F, genomic survey sequence.

ACCESSION A2579181
VERSION A2579181.1 GI:11693526
KEYWORDS GSS.

SOURCE
Mus musculus (house mouse)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 39)

REFERENCE

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamll,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Rellly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

TITLE
JOURNAL
COMMENT
Unpublished (2000)

Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Km. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
Plate: 0363 row: G column: 10
Seq primer: CGTGTAAACGACGCCACGT
Class: plasmid ends

High quality sequence stop: 39.
Location/Qualifiers

FEATURES
source

1. .39
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCGCM0365G10"
/sex="male"

/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUCGCM library"

/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (g14732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN

Query Match 73.3%; Score 11; DB 8; Length 39;
Best Local Similarity 100.0%; Pred. No. 1.4e+05;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 5 TCCATTGATGC 15
|||
18 TCCATTGATGC 28

RESULT 9 46 bp mRNA linear GSS 21-SEP-2004
CL982908
LOCUS CL982908
DEFINITION GC0134 TIGEM gene trap library Mus musculus CDNA clone 8644.24,
mRNA sequence.

ACCESSION CL982908
VERSION CL982908.1 GI:52420303
KEYWORDS GSS.

SOURCE
Mus musculus (house mouse)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 46)

REFERENCE

Cobellis,G., Nicolaus,G., Marra,E., Barbarisi,M., Sardiello,M., Di
Giorgio,F.P., Iovino,N., Zollo,M., Balabio,A. and Correse,R.
Tagging genes with cassette-exchange sites
Unpublished (2004)

TITLE
JOURNAL
COMMENT
Contact: TIGEM

107
TIGEM
Via P. Castellino, 111, 80131 NAPOLI, ITALY
Tel: +390815132205
Fax: +390815790919
Email: cobelli@tigem.it

Sequence tag generated by 5' RACE of total RNA from gene trap ES
cell line. ES cell lines harboring insertion mutation of target
gene are available upon request from TIGEM. Annotation information
available from TIGEM
Class: Gene Trap.

FEATURES
source

1. .46
/organism="Mus musculus"
/mol_type="mRNA"
/strain="129 Ola"
/db_xref="taxon:10090"
/clone="8644.24"
/sex="male"
/cell_type="Embryonic stem cell"
/cell_line="E14"
/clone_lib="TIGEM gene trap library"
/note="Vector: pFLIP1"

ORIGIN

Query Match 73.3%; Score 11; DB 9; Length 46;
Best Local Similarity 100.0%; Pred. No. 1.4e+05;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 4 CTCATTGATG 14

Db 26 CTCATTGATG 36

RESULT 10
BX659267/c 49 bp DNA linear GSS 04-APR-2004

LOCUS
DEFINITION
Arabidopsis thaliana T-DNA flanking sequence GK-644G02-022818,
genomic survey sequence.

ACCESSION
BX659267
VERSION
BX659267.1 GI:37615655

KEYWORDS
GSS.

SOURCE
ORGANISM
Arabidopsis thaliana (thale cress)

REFERENCE
AUTHORS
Li, Y., Rosso, M.G., Strizhov, N., Viehoever, P. and Weishaar, B.
TITLE
GABI-Kat Simplesearch: a flanking sequence tag (FST) database for
the identification of T-DNA insertion mutants in Arabidopsis
thaliana
JOURNAL
Bioinformatics 19 (11), 1441-1442 (2003)

MEDLINE
22755829
PUBMED
12874060

REFERENCE
AUTHORS
Rosso, M.G., Li, Y., Strizhov, N., Reis, B., Dekker, K. and
Weishaar, B.
TITLE
An Arabidopsis thaliana T-DNA mutagenized population (GABI-Kat) for
flanking sequence tag-based reverse genetics
JOURNAL
Plant Mol. Biol. 53 (1-2), 247-259 (2003)

MEDLINE
23117147
PUBMED
14756321

REFERENCE
AUTHORS
Strizhov, N., Li, Y., Rosso, M.G., Viehoever, P., Dekker, K.A. and
Weishaar, B.
TITLE
High-throughput generation of sequence indexes from T-DNA
mutagenized Arabidopsis thaliana lines
JOURNAL
Biotechniques 35 (6), 1164-1168 (2003)

MEDLINE
14682050
PUBMED

REFERENCE
AUTHORS
Strizhov, N., Rosso, M.G., Li, Y. and Weishaar, B.
TITLE
Submitted (31-MAR-2004) Weishaar B., Max-Planck-Institut fuer
Direkt Submission
COMMENT
Zuechungsforchung, Carl-von-Linne-Weg 10, Koeln, 50829, Germany
This sequence has been recovered from the left border of the T-DNA.
It indicates an insertion close to or within gene Atlg72180.
Details on the protocols used for generation of the sequence are
described in References 1-3. The sequences are generated at the MPI
for Plant Breeding Research in the context of the GABI-Kat project.
GABI-Kat is part of the German Plant Genomics program designated
'GABI'. Information on line availability can be found at:
<http://www.mpiz-koeln.mpg.de/GABI-Kat/>.

FEATURES
source
1. 49
/organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/strain="Columbia 0"
/db_xref="taxon:3702"
/clone="GK-644G02-022818"
/clone_lib="Arabidopsis thaliana T-DNA insertion lines"
/ecotype="Col-0"
/note="PCR was performed on DNA from Arabidopsis thaliana
plants (T1) which were transformed with the T-DNA from
vector PAC161 (GenBank accession number: AF337514). The
lines contain one or more T-DNA insertions. The DNA
fragment(s) resulting from the PCR were directly sequenced
to determine the genomic sequence flanking the insertion.
T-DNA derived sequences were removed."

ORIGIN
Query Match 73.3%; Score 11; DB 9; Length 49;
Best Local Similarity 100.0%; Pred. No. 1.4e+05;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 CTCATTGATG 14
|||||

Db 44 CTCATTGATG 34

RESULT 11
A2769902
LOCUS
DEFINITION
26 bp DNA linear GSS 16-FEB-2001
1M0571G06F Mouse 10kb plasmid UNGCM library Mus musculus genomic
clone UNGCM0571G06 F, genomic survey sequence.

ACCESSION
A2769902
VERSION
A2769902.1 GI:12890529

KEYWORDS
GSS.

SOURCE
ORGANISM
Mus musculus (house mouse)

REFERENCE
AUTHORS
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 26)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmood, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausen, A. and Wright, D., Weis, R.
TITLE
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL
Unpublished (2000)

COMMENT
Contact: Robert B. Weis
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: duddmgenetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0571 row: G column: 06
Seq primer: CGTGTAAACGACGCGCAGT
Class: plasmid ends
High quality sequence stop: 26.

FEATURES
source
1. 26
Location/Qualifiers
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UNGCM0571G06"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UNGCM library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(<http://www.jax.org/resources/documents/dnares/>). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (g14732114[gb]AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN
Query Match 72.0%; Score 10.8; DB 8; Length 26;
Best Local Similarity 85.7%; Pred. No. 1.7e+05;

Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GTGCTCATGTATG 14
 |||||
 12 GTGCTCCCTTACG 25

RESULT 12
 AU256788/c 28 bp mRNA linear EST 25-APR-2002

LOCUS AU256788.3'-directed mouse cDNA library Mus musculus cDNA clone

DEFINITION BED0008978 3', mRNA sequence.

ACCESSION AU256788 GI:20320779

VERSION AU256788

KEYWORDS EST.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus (house mouse)

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

AUTHORS Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

TITLE 1 (bases 1 to 28)

JOURNAL Kato, K. and Matoba, R.
 Generation of expressed sequence tags from mouse brain

COMMENT Unpublished (2002)

Contact: Kikuya Kato

Graduate School of Biological Sciences

Nara Institute of Science and Technology

8916-5 Takayama, Ikoma, Nara 630-0101, Japan

Tel: 81-743-72-5581

Fax: 81-743-72-5589

Email: kkatob@nara.ac.jp,
 URL: http://love2.aist-nara.ac.jp/BED/index.html.

Location/Qualifiers

1. 28

/organism="Mus musculus"

/mol_type="mRNA"

/db_xref="taxon:10090"

/clone="BED0008978"

/tissue_type="brain"

/clone_lib="3'-directed mouse cDNA library"

ORIGIN

Query Match 72.0%; Score 10.8; DB 1; Length 28;

Best Local Similarity 85.7%; Pred. No. 1.7e+05;

Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2 TGCTCCATGTATG 15
 |||||
 19 TCCCTCATGTATG 6

Db 19 TCCCTCATGTATG 6

RESULT 13

AZ780454 28 bp DNA linear GSS 16-FEB-2001

LOCUS AZ780454

DEFINITION 2M0017016R Mouse 10kb plasmid UGCG1M library Mus musculus genomic

clone UGCG2M0017016 R, genomic survey sequence.

ACCESSION AZ780454

VERSION AZ780454.1 GI:12912132

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus (house mouse)

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

AUTHORS Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 28)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,

Islam, H., Longacre, S., Mahmood, M., Meenen, E., Pedersen, T.,

Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von

Nederhausen, A. and Wright, D., Weis, R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weis

University of Utah

COMMENT

JOURNAL

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177

Email: dunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0017 row: O column: 16

Seq primer: CACACAGAAACAGCTATGACC

Class: plasmid ends

High quality sequence stop: 28.

Location/Qualifiers

SOURCE

1. 28

/organism="Mus musculus"

/mol_type="genomic DNA"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UGCG2M0017016"

/sex="Male"

/lab_host="R. Coli strain XL10-Gold, T1-resistant, F-"

/clone_lib="Mouse 10kb plasmid UGCG1M library"

/note="Vector: PMD22nv. Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA

was blunt end-repaired with T4 DNA polymerase and T4

polynucleotide kinase. Adaptor oligonucleotides were

ligated to the blunt ends in high molar excess. The

adapted DNA was purified and size-selected for a 9.5 to

10.5 kb range using preparative agarose gel

electrophoresis. Vector DNA was prepared from a derivative

of pMD42 (g14732114|gb|AF129072.1), a copy-number

inducible derivative of plasmid R1. The vector was ligated

with adaptors complementary to the insert adaptors and

purified. The sheared, adapted mouse DNA was annealed to

adapted vector DNA, and transformed into

chemically-competent E. coli XL10-Gold (Stratagene) cells

and selected for ampicillin resistance."

ORIGIN

Query Match 72.0%; Score 10.8; DB 8; Length 28;

Best Local Similarity 85.7%; Pred. No. 1.7e+05;

Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GTGCTCATGTATG 14
 |||||
 23 GTGCTCAGTTATG 10

Db 23 GTGCTCAGTTATG 10

RESULT 14

TA59H06P/c 42 bp DNA linear GSS 13-DEC-2000

LOCUS TA59H06P

DEFINITION T. brucei sheared genomic DNA clone 59h06, forward sequence,

genomic survey sequence.

ACCESSION AL455680

VERSION AL455680.1 GI:11857958

KEYWORDS GSS.

SOURCE Trypanosoma brucei

ORGANISM Trypanosoma brucei

REFERENCE Eukaryota; Euzlenozoa; Kinetoplastida; Trypanosomatidae;

AUTHORS Trypanosoma.

1 (bases 1 to 42)

Hall, N., Bowman, S., Leonard, N.J., Doggett, J., Atkin, R.,

Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L.,

Melville, S.B., Rajandream, M.A. and Barrell, B.G.

Direct Submission

Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing

project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,

Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and

nh@sanger.ac.uk

Constructed at the Institute for Genomic Research (TIGR),

Rockville, MD. Genomic DNA isolated from a cloned population of

Db 30 GTGCTCATGTAG 43
 Search completed: June 21, 2005, 06:51:11
 Job time : 3008 secs

Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared to give a tight size distribution (4 kb). The v + i method used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaudin and B. Barrell, Oxford University Press, 1999).
 Email: neisayed@tigr.org
 Details of T. brucei sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/Projects/T_brucei/.
 Location/Qualifiers

1. 42
 /organism="Trypanosoma brucei"
 /mol_type="genomic DNA"
 /strain="TREU927"
 /db_xref="taxon:5691"
 /clone="59h06"

ORIGIN

Query Match 72.0%; Score 10.8; DB 9; Length 42;
 Best Local Similarity 85.7%; Pred. No. 1.8e+05;
 Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GTGCTCATGTAG 14
 ||| |||||
 Db 22 GTGCCCCATTGAG 9

RESULT 15
 CUS21218 43 bp mRNA linear EST 06-OCT-2004
 LOCUS 0089P0056Z.x0_D02 Mimulus guttatus library 2 Mimulus guttatus cDNA
 DEFINITION clone 0089P0056Z.x0_D02, mRNA sequence.

ACCESSION CUS21218
 VERSION CUS21218.1 GI:53847750
 KEYWORDS EST.

SOURCE Mimulus guttatus (spotted monkey flower)
 ORGANISM Mimulus guttatus

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids; lamiales; Lamiales; incertae sedis; Mimuleae; Mimulus.

REFERENCE 1 (bases 1 to 43)
 AUTHORS Willis, J., Visions, T., Dietrich, F.S. and Allen, A.

TITLE Mimulus guttatus cDNA sequence
 JOURNAL Unpublished (2004)
 COMMENT Contact: Willis J

Department of Biology
 Duke University
 072-A Biological Sciences Science Drive, Durham, NC 27708, USA
 Tel: 919 660 7340
 Fax: 919 660 7293
 Email: jwillis@duke.edu

Plate: 0089P0056 row: 02 column: D
 Seq primer: 77

High quality sequence start: 80
 High quality sequence stop: 132.

FEATURES

source
 1. 43
 Location/Qualifiers
 /organism="Mimulus guttatus"
 /mol_type="mRNA"
 /db_xref="taxon:4155"
 /clone="0089P0056Z.x0_D02"
 /clone_1b="Mimulus guttatus library 2"
 /note="Vector: pGEM-T Easy; a Mimulus guttatus cDNA library"

ORIGIN

Query Match 72.0%; Score 10.8; DB 7; Length 43;
 Best Local Similarity 85.7%; Pred. No. 1.8e+05;
 Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GTGCTCATGTAG 14

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 21, 2005, 01:08:35 ; Search time 3103 Seconds
(without alignments)
184.004 Million cell updates/sec

Title: US-10-075-994A-1

Perfect score: 15

Sequence: 1 gtgctcatgatgc 15

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Database :

EST: *
1: gb_est1: *
2: gb_est2: *
3: gb_hlc: *
4: gb_est3: *
5: gb_est4: *
6: gb_est5: *
7: gb_est6: *
8: gb_ges1: *
9: gb_ges2: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	15	100.0	165	9	CG531606 OST114549
C 2	15	100.0	166	9	CG497924 OST18825
C 3	15	100.0	207	1	AA306005 EST177032
C 4	15	100.0	229	9	CG605299 OST81834
C 5	15	100.0	231	9	CG661765 OST43394
C 6	15	100.0	253	9	CG580338 OST19649
C 7	15	100.0	274	2	BR897689 QV1-MT022
C 8	15	100.0	276	9	CG664359 OST451337
C 9	15	100.0	282	9	CG546546 OST146106
C 10	15	100.0	293	2	BF468476 UI-M-CD0
C 11	15	100.0	294	1	AA332421 EST16381
C 12	15	100.0	300	9	CG577036 OST12398
C 13	15	100.0	300	9	CG591346 OST45811
C 14	15	100.0	308	9	CG513061 OST66238
C 15	15	100.0	309	7	CN295726 170005321
C 16	15	100.0	327	7	DA3526 DA3526 R1ce
C 17	15	100.0	328	5	BY329807 BY329807
C 18	15	100.0	335	5	BY324333 BY324333
C 19	15	100.0	340	5	BY068929 BY068929
C 20	15	100.0	346	5	BO375054 MR4-TN011
C 21	15	100.0	349	5	BY063442 BY063442
C 22	15	100.0	351	9	CG633156 OST152509
C 23	15	100.0	353	6	CB779923 AMGNNUC:N
C 24	15	100.0	355	5	BY147345 BY147345

C 25	15	100.0	355	9	CG623442
C 26	15	100.0	358	5	BY014540
C 27	15	100.0	359	5	BY304066
C 28	15	100.0	362	5	BY036035
C 29	15	100.0	362	9	CG555213
C 30	15	100.0	366	5	CG663180
C 31	15	100.0	366	5	BY318790
C 32	15	100.0	367	5	BY014670
C 33	15	100.0	374	5	BY071821
C 34	15	100.0	376	5	BY280317
C 35	15	100.0	379	2	BE244097
C 36	15	100.0	379	5	BY047534
C 37	15	100.0	382	1	AU077313
C 38	15	100.0	384	5	BY087978
C 39	15	100.0	387	1	AA017736
C 40	15	100.0	388	9	CG603416
C 41	15	100.0	391	5	BY061467
C 42	15	100.0	399	5	BY279803
C 43	15	100.0	400	5	BY288082
C 44	15	100.0	401	6	CB698634
C 45	15	100.0	406	5	BY314742

ALIGNMENTS

RESULT 1
CG531606/c
LOCUS
DEFINITION CG531606 165 bp mRNA linear GSS 01-OCT-2003
OS114549 Mus musculus 129Sv/Ev Mus musculus cDNA clone OST114549,
mRNA sequence.
ACCESSION CG531606
VERSION CG531606.1 GI:37318178
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 165)
Zambrowicz,B.P., Abuln,A., Ramirez-Solis,R., Richter,L.J.,
Piggott,J., Beltranderio,H., Buxton,E.C., Edwards,J., Finch,R.A.,
Fridlie,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,C.,
Key,B.W. Jr., Kipp,P., Kohlhauf,B., Ma,Z.-Q., Markesich,D.,
Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z.,
Sparkes,M.J., Van Slightenhorst,I., Vogel,P., Walke,W., Xu,N.,
Zhu,Q., Person,C. and Sands,A.T.
Wnt1 kinase deficiency lowers blood pressure in mice: a gene-trap
screen to identify potential targets for therapeutic intervention
Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
Contact: Zambrowicz BP
OmitBank
Lexicon Genetics Incorporated
4000 Research Forest Drive, The Woodlands, TX 77381, USA
Email: materials@lexgen.com
Gene trap sequence tag generated by 3' RACE from mouse ES cells as
described in Zambrowicz et al (Nature, 1998 Apr 9;392(6676):608-11)
Class: Gene Trap.
FEATURES
source
1..165
/organism="Mus musculus"
/mol_type="mRNA"
/strain="129Sv/Ev"
/db_xref="taxon:10090"
/clone="OST114549"
/cell_type="embryonic stem cell"
/clone_lib="Mus musculus 129Sv/Ev"
ORIGIN
Query Match 100.0%; Score 15; DB 9; Length 165;
Best local Similarity 100.0%; Pred. No. 7.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CY 1 GTGCTCATGATGC 15

Db 39 GTGCTCCATTGATGC 25

|||||

RESULT 2
LOCUS CG497924/c
DEFINITION OST38825 Mus musculus 129Sv/Ev Mus musculus cDNA clone OST38825,
mRNA sequence.
ACCESSION CG497924
VERSION CG497924.1 GI:37267955
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 166)
AUTHORS Zambrowicz,B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J.,
Piggott,J., BeltrandeRio,H., Buxton,E.C., Edwards,J., Finch,R.A.,
Fridde,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaling,C.,
Key,B.W. Jr., Kipp,P., Kohlhauff,B., Ma,Z.-Q., Markesich,D.,
Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z.,
Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N.,
Zhu,Q., Person,C. and Sands,A.T.
Mkl1 kinase deficiency lowers blood pressure in mice: a gene-trap
screen to identify potential targets for therapeutic intervention
Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
Contact: Zambrowicz BP

TITLE
JOURNAL
COMMENT Omibank
Lexicon Genetics Incorporated
4000 Research Forest Drive, The Woodlands, TX 77381, USA
Email: materials@lexgen.com
Gene trap sequence tag generated by 3' RACE from mouse ES cells as
described in Zambrowicz et al (Nature. 1998 Apr 9;339(6676):608-11)
Class: Gene Trap.

FEATURES
source
Location/Qualifiers
1..166
/organism="Mus musculus"
/mol_type="mRNA"
/strain="129Sv/Ev"
/db_xref="taxon:10090"
/clone="OST38825"
/cell_type="embryonic stem cell"
/clone_1fb="Mus musculus 129Sv/Ev"

ORIGIN
Query Match 100.0%; Score 15; DB 9; Length 166;
Best Local Similarity 100.0%; Pred. No. 7.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
|||||

Db 35 GTGCTCCATTGATGC 21

RESULT 3
LOCUS AA306005
DEFINITION EST177032 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to
Proto-oncogene raf, mRNA sequence.
ACCESSION AA306005
VERSION AA306005.1 GI:1958375
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 207)
AUTHORS Adams,M.D., Kerlavage,A.R., Fleischmann,R.D., Fuldner,R.A.,
Bull,C.J., Lee,N.H., Kirkness,E.F., Weinstein,K.G., Gocayne,J.D.,
White,O., Sutton,G., Blake,J.A., Brandon,R.C., Man-Wai,C.,
Clayton,R.A., Cline,T.R., Cotton,M.D., Earle-Hughes,J., Fine,L.D.,
Fitzgerald,L.M., Fitzhugh,W.M., Fritchman,J.L., Georganen,N.S.,

Glodek,A., Gnehm,C.L., Hanna,M.C., Hedblom,E., Hinkle,P.S.Jr.,
Kelley,J.M., Kelley,J.C., Liu,L.-I., Marmaros,S.M., Merrick,J.M.,
Moreno-Palanges,R.F., McDonald,L.A., Nguyen,D.T., Pelligrino,S.M.,
Phillips,C.A., Ryder,S.E., Scott,J.L., Sauder,D.M., Shirley,R.,
Small,K.V., Spriggs,T.A., Uteback,T.R., Weidman,J.F., Li,Y.,
Bednarik,D.P., Cao,L., Cepeda,M.A., Coleman,T.A., Collins,E.J.,
Demke,D., Feng,D.-F., Ferrie,A., Fischer,C., Haslings,G.A.,
H.M.W., Hu,J.S., Greene,J.M., Gruber,J., Hudson,P., Kim,A.K.,
Kozak,D.L., Kunsch,C., Hungjun,J., Li,H., Weisner,P.S., Olsen,H.,
Raymond,L., Wei,Y.F., Wing,J., Xu,C., Yu,G.L., Ruben,S.M.,
Dillon,P.J., Fannon,M.R., Rosen,C.A., Haseltine,W.A., Fields,C.,
Fraser,C.M. and Venter,J.C.
Initial assessment of human gene diversity and expression patterns
based upon 83 million nucleotides of cDNA sequence
Nature 377 (6547 Suppl), 3-174 (1995)
96026280

TITLE
JOURNAL
MEDLINE
PUBMED
COMMENT Other ESTs: THC192945
Contact: Kerlavage, AR
Bioinformatics
The Institute for Genomic Research
9712 Medical Center Drive, Rockville, MD 20850 USA
Tel: 3018699056
Fax: 3018699423
Email: arkerlav@tigr.org
For clone availability, additional sequence and expression
information related to this EST, please check the TIGR Human Gene
Index (<http://www.tigr.org/cdb/hgi/hgi.html>)
Seq primer: M13 Reverse.
Location/Qualifiers
1..207
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="FATCC (inhos):160136"
/db_xref="taxon:9606"
/cell_type="T-lymphocyte"
/clone_1fb="Jurkat T-cells VI"
/note="Vector: pBluescript SK-; Site_1: EcoRI; Site_2:
XhoI"

ORIGIN
Query Match 100.0%; Score 15; DB 1; Length 207;
Best Local Similarity 100.0%; Pred. No. 7.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
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Db 40 GTGCTCCATTGATGC 26

RESULT 4
LOCUS CG605299/c
DEFINITION OST281834 Mus musculus 129Sv/Ev Mus musculus cDNA clone OST281834,
mRNA sequence.
ACCESSION CG605299
VERSION CG605299.1 GI:37427977
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 229)
AUTHORS Zambrowicz,B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J.,
Piggott,J., BeltrandeRio,H., Buxton,E.C., Edwards,J., Finch,R.A.,
Fridde,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaling,C.,
Key,B.W. Jr., Kipp,P., Kohlhauff,B., Ma,Z.-Q., Markesich,D.,
Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z.,
Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N.,
Zhu,Q., Person,C. and Sands,A.T.
Mkl1 kinase deficiency lowers blood pressure in mice: a gene-trap
screen to identify potential targets for therapeutic intervention
Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)

COMMENT Contact: Zambrowicz BP
OmiBank
Lexicon Genetics Incorporated
4000 Research Forest Drive, The Woodlands, TX 77381, USA
Email: material@lexgen.com
Gene trap sequence tag generated by 3' RACE from mouse ES cells as described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
Class: Gene Trap.
Location/Qualifiers

FEATURES
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1. .229
/organism="Mus musculus"
/mol_type="mRNA"
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/db_xref="taxon:10090"
/clone="OST281834"
/cell_type="embryonic stem cell"
/clone_1id="Mus musculus 129Sv/Ev"

ORIGIN

Query Match 100.0%; Score 15; DB 9; Length 229;
Best Local Similarity 100.0%; Pred. No. 7.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCCATTGATGC 15
|||||
43 GTGCTCCATTGATGC 29

DB

RESULT 5
CG661765/c 231 bp mRNA linear GSS 02-OCT-2003
LOCUS OST443394 Mus musculus 129Sv/Ev Mus musculus CDNA clone OST443394,
DEFINITION mRNA sequence.
ACCESSION CG661765
VERSION CG661765.1 GI:37485614
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 231)
Zambrowicz, B.P., Abuin, A., Ramirez-Solis, R., Richner, L.J.,
Piggott, T., BeltrandelRio, H., Buxton, E.C., Edwards, J., Finch, R.A.,
Fridde, C.J., Gupta, A., Hansen, G., Hu, Y., Huang, W., Jaing, C.,
Key, B.W. Jr., Kipp, P., Kohlauf, B., Ma, Z.-Q., Markesich, D.,
Payne, R., Potter, D.G., Qian, N., Shaw, J., Schrick, J., Shi, Z.-Z.,
Spark, M.J., Van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N.,
Zhu, O., Person, C. and Sands, A.T.
Mki1 kinase deficiency lowers blood pressure in mice: a gene-trap
screen to identify potential targets for therapeutic intervention
Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
Contact: Zambrowicz BP

JOURNAL OmiBank
COMMENT Lexicon Genetics Incorporated
4000 Research Forest Drive, The Woodlands, TX 77381, USA
Email: material@lexgen.com
Gene trap sequence tag generated by 3' RACE from mouse ES cells as described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
Class: Gene Trap.
Location/Qualifiers

FEATURES
source
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/mol_type="mRNA"
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/db_xref="taxon:10090"
/clone="OST443394"
/cell_type="embryonic stem cell"
/clone_1id="Mus musculus 129Sv/Ev"

ORIGIN

Query Match 100.0%; Score 15; DB 9; Length 231;
Best Local Similarity 100.0%; Pred. No. 7.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCCATTGATGC 15
|||||
42 GTGCTCCATTGATGC 28

DB

RESULT 7
BF897689 274 bp mRNA linear EST 18-JAN-2001
LOCUS OVI-MT0224-281100-512-B01 MT0224 Homo sapiens CDNA, mRNA sequence.
DEFINITION BF897689
ACCESSION BF897689
VERSION BF897689.1 GI:12289148
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 274)
Das Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,
Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.P.,
Goldman, G.H., Carvalho, A.F., Matsumura, A., Bata, G.S., Simpson, D.H.,
Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V.,

OY 1 GTGCTCCATTGATGC 15
|||||
30 GTGCTCCATTGATGC 16

DB

RESULT 6
CG580338/c 253 bp mRNA linear GSS 02-OCT-2003
LOCUS OST219649 Mus musculus 129Sv/Ev Mus musculus CDNA clone OST219649,
DEFINITION mRNA sequence.
ACCESSION CG580338
VERSION CG580338
KEYWORDS CG580338.1 GI:37375289
GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 253)
Zambrowicz, B.P., Abuin, A., Ramirez-Solis, R., Richner, L.J.,
Piggott, T., BeltrandelRio, H., Buxton, E.C., Edwards, J., Finch, R.A.,
Fridde, C.J., Gupta, A., Hansen, G., Hu, Y., Huang, W., Jaing, C.,
Key, B.W. Jr., Kipp, P., Kohlauf, B., Ma, Z.-Q., Markesich, D.,
Payne, R., Potter, D.G., Qian, N., Shaw, J., Schrick, J., Shi, Z.-Z.,
Spark, M.J., Van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N.,
Zhu, O., Person, C. and Sands, A.T.
Mki1 kinase deficiency lowers blood pressure in mice: a gene-trap
screen to identify potential targets for therapeutic intervention
Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
Contact: Zambrowicz BP

JOURNAL OmiBank
COMMENT Lexicon Genetics Incorporated
4000 Research Forest Drive, The Woodlands, TX 77381, USA
Email: material@lexgen.com
Gene trap sequence tag generated by 3' RACE from mouse ES cells as described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
Class: Gene Trap.
Location/Qualifiers

FEATURES
source
1. .253
/organism="Mus musculus"
/mol_type="mRNA"
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/clone="OST219649"
/cell_type="embryonic stem cell"
/clone_1id="Mus musculus 129Sv/Ev"

ORIGIN

Query Match 100.0%; Score 15; DB 9; Length 253;
Best Local Similarity 100.0%; Pred. No. 7.9e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCCATTGATGC 15
|||||
42 GTGCTCCATTGATGC 28

DB

RESULT 7
BF897689 274 bp mRNA linear EST 18-JAN-2001
LOCUS OVI-MT0224-281100-512-B01 MT0224 Homo sapiens CDNA, mRNA sequence.
DEFINITION BF897689
ACCESSION BF897689
VERSION BF897689.1 GI:12289148
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 274)
Das Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,
Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.P.,
Goldman, G.H., Carvalho, A.F., Matsumura, A., Bata, G.S., Simpson, D.H.,
Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V.,

O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.
Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

JOURNAL MEDLINE
PUBMED
10737800
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
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Tel: +55-11-27049222
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?l=QV1&t2=QV1-MT0224-281100-512-P01&t3=2000-11-28&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 27
High quality sequence stop: 274.
Location/Qualifiers

FEATURES
Source
1. .274
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_strge="Adult"
/clone_lib="MT0224"
/note="Organ: marrow; Vector: puc18; Site_1: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the puc 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

ORIGIN
Query Match 100.0%; Score 15; DB 2; Length 274;
Best Local Similarity 100.0%; Pred. No. 8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
170 GTGCTCCATTGATGC 184

RESULT 8
CG664359/c
LOCUS
DEFINITION
CG664359
VERSION
KEYWORDS
SOURCE
ORGANISM

CG664359 276 bp mRNA linear GSS 02-OCT-2003
OST451337 Mus musculus 129Sv/Ev Mus musculus cDNA clone OST451337,
mRNA sequence.
CG664359
GSS.
Mus musculus (house mouse)
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 276)
Zambrowicz, B.P., Abuin, A., Ramirez-Solis, R., Richter, L.J.,
Piggott, J., Beltranderio, H., Buxton, E.C., Edwards, J., Finch, R.A.,
Fridde, C.J., Gupta, A., Hansen, G., Hu, Y., Huang, W., Jais, C.,
Key, B.W. Jr., Kipp, P., Kohlhauff, B., Ma, Z.-Q., Markesich, D.,
Payne, R., Potter, D.G., Qian, N., Shaw, J., Schrick, J., Shi, Z.-Z.,
Sparks, M.J., Van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N.,
Zhu, Q., Person, C. and Sands, A.T.
Mki kinase deficiency lowers blood pressure in mice: a gene-trap
screen to identify potential targets for therapeutic intervention
Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
Contact: Zambrowicz BP
OmniBank
Lexicon Genetics Incorporated

JOURNAL COMMENT
TITLE
AUTHORS
REFERENCE

4000 Research Forest Drive, The Woodlands, TX 77381, USA
Email: materials@lexgen.com
Gene trap sequence tag generated by 3' RACE from mouse ES cells as
described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
Class: Gene trap.
Location/Qualifiers

FEATURES
Source
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/mol_type="mRNA"
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/cell_type="embryonic stem cell"
/clone_lib="Mus musculus 129Sv/Ev"

ORIGIN
Query Match 100.0%; Score 15; DB 9; Length 282;
Best Local Similarity 100.0%; Pred. No. 8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
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RESULT 9
CG546546/c
LOCUS
DEFINITION
CG546546
VERSION
KEYWORDS
SOURCE
ORGANISM

CG546546 282 bp mRNA linear GSS 01-OCT-2003
OST16106 Mus musculus 129Sv/Ev Mus musculus cDNA clone OST16106,
mRNA sequence.
CG546546
GSS.
Mus musculus (house mouse)
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 282)
Zambrowicz, B.P., Abuin, A., Ramirez-Solis, R., Richter, L.J.,
Piggott, J., Beltranderio, H., Buxton, E.C., Edwards, J., Finch, R.A.,
Fridde, C.J., Gupta, A., Hansen, G., Hu, Y., Huang, W., Jais, C.,
Key, B.W. Jr., Kipp, P., Kohlhauff, B., Ma, Z.-Q., Markesich, D.,
Payne, R., Potter, D.G., Qian, N., Shaw, J., Schrick, J., Shi, Z.-Z.,
Sparks, M.J., Van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N.,
Zhu, Q., Person, C. and Sands, A.T.
Mki kinase deficiency lowers blood pressure in mice: a gene-trap
screen to identify potential targets for therapeutic intervention
Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
Contact: Zambrowicz BP
OmniBank
Lexicon Genetics Incorporated
4000 Research Forest Drive, The Woodlands, TX 77381, USA
Email: materials@lexgen.com
Gene trap sequence tag generated by 3' RACE from mouse ES cells as
described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
Class: Gene trap.
Location/Qualifiers

FEATURES
Source
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/mol_type="mRNA"
/strain="129Sv/Ev"
/db_xref="taxon:10090"
/clone="OST16106"
/cell_type="embryonic stem cell"
/clone_lib="Mus musculus 129Sv/Ev"

ORIGIN
Query Match 100.0%; Score 15; DB 9; Length 282;
Best Local Similarity 100.0%; Pred. No. 8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
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KEYWORDS	EST.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 294)
AUTHORS	Adams,M.D., Kerlavage,A.R., Fleischmann,R.D., Fuldner,R.A., Bult,C.J., Lee,N.H., Kirkness,E.F., Weinstock,K.G., Gocayne,J.D., White,O., Sutton,G., Blake,J.A., Brandon,R.C., Man-ai,C., Clayton,R.A., Cline,T.R., Cotton,M.D., Barle-Hughes,J., Fine,L.D., Fitzgerald,L.M., Fitzhugh,W.M., Fritchman,J.L., Geoghegan,N.S., Glodde,A., Gnehm,C.L., Hanna,M.C., Hedblom,E., Hinkle,P.S.Jr., Kelley,J.M., Kelley,J.C., Liu,L.-i., Marmaros,S.M., Merrick,J.M., Moreno-Palauques,R.F., McDonald,L.A., Nguyen,D.T., Pelligrino,S.M., Phillips,C.A., Ryder,S.E., Scott,J.U., Saudak,D.M., Shiley,R., Small,K.V., Spriggs,T.A., Utechtack,T.R., Weidman,J.F., Li,Y., Bednarek,D.P., Cao,L., Cepeda,M.A., Coleman,T.A., Collins,E.J., Dunke,D., Fung,D.-F., Ferrie,A., Fischer,C., Hastings,G.A., He,M.W., Hu,J.S., Greene,J.M., Gruber,J., Hudson,P., Kim,A.K., Kozak,D.L., Kunsch,C., Hungjun,J., Li,H., Meltsner,P.S., Olsen,H., Raymond,L., Wei,Y.F., Wang,Y., Xu,C., Yu,G.L., Ruden,S.M., Dillion,P.J., Fannon,M.R., Rosen,C.A., Haeseltine,W.A., Fields,C., Fraser,C.M. and Venter,J.C.
TITLE	Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence
JOURNAL	Nature 377 (6547 Suppl), 3-174 (1995)
MEDLINE	96026280
PUBMED	7566098
COMMENT	Other ESTs: THC12945 Contact: Kerlavage, AR Bioinformatics The Institute for Genomic Research 9712 Medical Center Drive, Rockville, MD 20850 USA Tel: 3018699056 Fax: 3018699423
FEATURES	Email: arkerlav@tigr.org For clone availability, additional sequence and expression information related to this EST, please check the TIGR Human Gene Index (http://www.tigr.org/tcbl/hgi/hgi.html) Seq primer: M13 Reverse. Location/Qualifiers 1..294 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="ATCC (inhost):134082" /db_xref="taxon:9606" /def_tag="embryo, 8 wks" /clone_id="Embryo, 8 week I" /note="Organ: Embryo, 8 weeks; Vector: pBluescript SK-; Site_1: EcorI; Site_2: XhoI"
ORIGIN	
Query Match	100.0%; Score 15; DB 1; Length 294;
Best Local Similarity	100.0%; P-Id. No. 8.1e+02;
Matches	15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
0y	1 GTGCTCATGATGTC 15
Db	40 GTGCTCATGATGTC 26
RESULT 12	
CG577036/c	300 bp mRNA linear GSS 02-OCT-2003
LOCUS	OSR12398 Mus musculus 1255v/Ev Mus musculus cDNA clone OSR12398,
DEFINITION	mRNA sequence.
ACCESSION	CG577036
VERSION	CG577036.1 GI:37367640
KEYWORDS	GSS.
SOURCE	Mus musculus (house mouse)
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

```

REFERENCE
AUTHORS      1 (bases 1 to 300)
              Zambrowicz,B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J.,
              Piggett,J., BeltranderRio,H., Buxton,E.C., Edwards,J., Finch,R.A.,
              Fridde,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaing,C.,
              Key,B.W., Jr., Kipp,P., Kohlhauff,B., Ma,Z.-Q., Markesich,D.,
              Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z.,
              Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N.,
              Zhu,Q., Person,C. and Sands,A.T.
TITLE        Wnt1 kinase deficiency lowers blood pressure in mice: a gene-trap
JOURNAL      screen to identify potential targets for therapeutic intervention
COMMENT      Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
              Contact: Zambrowicz BP
              OmniBank
              Lexicon Genetics Incorporated
              4000 Research Forest Drive, The Woodlands, TX 77381, USA
              Email: materials@lexgen.com
              Gene trap sequence tag generated by 3' RACE from mouse ES cells as
              described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
              Class: Gene Trap.

FEATURES
source       Location/Qualifiers
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              /db_xref="taxon:10090"
              /clone="OST212398"
              /cell_type="embryonic stem cell"
              /clone_lib="Mus musculus 129Sv/Ev"

ORIGIN
Query Match      100.0%; Score 15; DB 9; Length 300;
Best Local Similarity 100.0%; Pred. No. 8.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GTGCTCATTGATGC 15
        |||||
        42 GTGCTCATTGATGC 28

RESULT 13
LOCUS     CG513146      300 bp      mRNA      linear      GSS 02-OCT-2003
DEFINITION OST245811 Mus musculus 129Sv/Ev Mus musculus cDNA clone OST245811,
            mRNA sequence.
ACCESSION CG513146
VERSION   CG513146.1 GI:37399162
KEYWORDS  GSS.
SOURCE    Mus musculus (house mouse)
ORGANISM  Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
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            /strain="129Sv/Ev"
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            /clone="OST245811"
            /cell_type="embryonic stem cell"
            /clone_lib="Mus musculus 129Sv/Ev"

REFERENCE
AUTHORS      Zambrowicz,B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J.,
              Piggett,J., BeltranderRio,H., Buxton,E.C., Edwards,J., Finch,R.A.,
              Fridde,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaing,C.,
              Key,B.W., Jr., Kipp,P., Kohlhauff,B., Ma,Z.-Q., Markesich,D.,
              Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z.,
              Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N.,
              Zhu,Q., Person,C. and Sands,A.T.
TITLE        Wnt1 kinase deficiency lowers blood pressure in mice: a gene-trap
JOURNAL      screen to identify potential targets for therapeutic intervention
COMMENT      Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
              Contact: Zambrowicz BP
              OmniBank
              Lexicon Genetics Incorporated
              4000 Research Forest Drive, The Woodlands, TX 77381, USA
              Email: materials@lexgen.com
              Gene trap sequence tag generated by 3' RACE from mouse ES cells as
              described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
              Class: Gene Trap.

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DEFINITION I7000532192143 GRN_ES Homo sapiens cDNA 5', mRNA sequence.
ACCESSION CN295726

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REFERENCE
AUTHORS      1 (bases 1 to 308)
              Zambrowicz,B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J.,
              Piggett,J., BeltranderRio,H., Buxton,E.C., Edwards,J., Finch,R.A.,
              Fridde,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaing,C.,
              Key,B.W., Jr., Kipp,P., Kohlhauff,B., Ma,Z.-Q., Markesich,D.,
              Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z.,
              Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N.,
              Zhu,Q., Person,C. and Sands,A.T.
TITLE        Wnt1 kinase deficiency lowers blood pressure in mice: a gene-trap
JOURNAL      screen to identify potential targets for therapeutic intervention
COMMENT      Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
              Contact: Zambrowicz BP
              OmniBank
              Lexicon Genetics Incorporated
              4000 Research Forest Drive, The Woodlands, TX 77381, USA
              Email: materials@lexgen.com
              Gene trap sequence tag generated by 3' RACE from mouse ES cells as
              described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
              Class: Gene Trap.

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VERSION   CG513061.1 GI:37299634
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ORGANISM  Mus musculus
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REFERENCE
AUTHORS      Zambrowicz,B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J.,
              Piggett,J., BeltranderRio,H., Buxton,E.C., Edwards,J., Finch,R.A.,
              Fridde,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaing,C.,
              Key,B.W., Jr., Kipp,P., Kohlhauff,B., Ma,Z.-Q., Markesich,D.,
              Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z.,
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              Zhu,Q., Person,C. and Sands,A.T.
TITLE        Wnt1 kinase deficiency lowers blood pressure in mice: a gene-trap
JOURNAL      screen to identify potential targets for therapeutic intervention
COMMENT      Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
              Contact: Zambrowicz BP
              OmniBank
              Lexicon Genetics Incorporated
              4000 Research Forest Drive, The Woodlands, TX 77381, USA
              Email: materials@lexgen.com
              Gene trap sequence tag generated by 3' RACE from mouse ES cells as
              described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
              Class: Gene Trap.

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DEFINITION I7000532192143 GRN_ES Homo sapiens cDNA 5', mRNA sequence.
ACCESSION CN295726

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VERSION CN295726.1 GI:47312140
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 309)
AUTHORS Brandenberger, R., Wei, H., Zhang, S., Lei, S., Murage, J., Fisk, G.J.,
Li, Y., Xu, C., Fang, R., Guogler, K., Rao, M.S., Mandalam, R.,
Lebkowski, J. and Stanton, L.M.
TITLE Transcriptional characterization elucidates signaling networks that
control human ES cell growth and differentiation
JOURNAL Nat. Biotechnol. 22 (6), 707-716 (2004)
COMMENT Contact: Brandenberger R
Regenerative Medicine
Geron Corporation
230 Constitution Drive, Menlo Park, CA 94025, USA
Tel: 650 473 8658
Fax: 650 473 7760
Email: rbrandenberger@geron.com
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Db 278 GTGCTCATTGATGC 264
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 20, 2005, 20:52:15 ; Search time 1678 Seconds
(without alignments)
433.152 Million cell updates/sec

Title: US-10-075-994A-1
Perfect score: 15
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues
Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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1: gb_ba: *
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13: gb_un: *
14: gb_vi: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	15	100.0	15	6	AR110777 Sequence
3	15	100.0	15	6	AR167449 Sequence
4	15	100.0	15	6	CQ789712 Sequence
5	15	100.0	15	6	AR310685 Sequence
6	15	100.0	15	6	AR310687 Sequence
7	15	100.0	15	6	AX797662 Sequence
8	15	100.0	15	6	AX957646 Sequence
9	15	100.0	15	6	AX957740 Sequence
10	15	100.0	15	6	AX958145 Sequence
11	15	100.0	15	6	BD106498 Sequence
12	15	100.0	20	6	AR073978 Sequence
13	15	100.0	20	6	AR216002 Sequence
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17	15	100.0	1496	8	AK064133 Oryza sat
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C 21	15	100.0	2970	10	BC062071	BC062071 Rattus no
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C 23	15	100.0	2977	6	AR073995	AR073995 Sequence
C 24	15	100.0	2977	6	AR110473	AR110473 Sequence
C 25	15	100.0	2977	6	BD237320	BD237320 Modulatio
C 26	15	100.0	2977	6	134402	134402 Sequence 17
C 27	15	100.0	2977	6	196180	196180 Sequence 17
C 28	15	100.0	2977	6	AR215978	AR215978 Sequence
C 29	15	100.0	2977	6	AR337749	AR337749 Sequence
C 30	15	100.0	2977	6	AR360020	AR360020 Sequence
C 31	15	100.0	2977	6	AX022819	AX022819 Sequence
C 32	15	100.0	2977	6	AX030539	AX030539 Sequence
C 33	15	100.0	2977	6	AX337827	AX337827 Sequence
C 34	15	100.0	2977	6	AX622838	AX622838 Sequence
C 35	15	100.0	2977	6	AX696362	AX696362 Sequence
C 36	15	100.0	2977	6	AX777762	AX777762 Sequence
C 37	15	100.0	2977	6	BD091455	BD091455 Transgeni
C 38	15	100.0	2977	9	HSRAFR	X03484 Human mRNA
C 39	15	100.0	2981	6	CO723686	CO723686 Sequence
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ALIGNMENTS

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DEFINITION AR110775
ACCESSION AR110775
VERSION AR110775.1 GI:12827623
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
AUTHORS Kasid,U., Gokhale,P., Drietschilo,A. and Rahman,A.
TITLE Liposomes containing oligonucleotides
JOURNAL Patent: US 6126965-A 1 03-OCT-2000;
FEATURES
LOCATION/Qualifiers
source 1..15
ORIGIN
Query Match 100.0%; Score 15; DB 6; Length 15;
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DEFINITION Sequence 3 from patent US 6126965.
ACCESSION AR110777
VERSION AR110777.1 GI:12827625
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
AUTHORS Kasid,U., Gokhale,P., Drietschilo,A. and Rahman,A.
TITLE Liposomes containing oligonucleotides

JOURNAL Patent: US 6126965-A 3 03-OCT-2000;
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KEYWORDS
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ORGANISM
REFERENCE 1 (bases 1 to 15)
AUTHORS Sample,S.C., Kilmuk,S.K., Harasym,T., Hope,M.J., Ansell,S.M.,
Cullis,P., Scherrer,P. and Debever,D.
TITLE Charged therapeutic agents encapsulated in lipid particles
JOURNAL Patent: US 6287591-A 15 11-SEP-2001;
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LOCUS Sequence 1 from Patent WO2004017944.
DEFINITION CQ789712
ACCESSION CQ789712
VERSION CQ789712.1 GI:45823264
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 15)
AUTHORS Zhang,J.A. and Ahmad,I.
TITLE Liposomal gemcitabine compositions for better drug delivery
JOURNAL Patent: WO.2004017944-A 1 04-MAR-2004;
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DEFINITION AR310685
ACCESSION AR310685
VERSION AR310685.1 GI:31703829
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 15)
AUTHORS Kasid,U., Gokhale,P., Zhang,C., Dritschilo,A. and Rahman,A.
TITLE Cationic liposomal delivery system and therapeutic use thereof
JOURNAL Patent: US 6559129-A 1 06-MAY-2003;
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ACCESSION AR310687
VERSION AR310687.1 GI:31703831
KEYWORDS
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AUTHORS Kasid,U., Gokhale,P., Zhang,C., Dritschilo,A. and Rahman,A.
TITLE Cationic liposomal delivery system and therapeutic use thereof
JOURNAL Patent: US 6559129-A 3 06-MAY-2003;
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DEFINITION AX797662
ACCESSION AX797662
VERSION AX797662.1 GI:37518090
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)

REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
SOURCE

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1
Semple,S., Klimuk,S. and Yuan,Z.N.
Mucosal adjuvants comprising an oligonucleotide and a cationic
lipid
Patent: WO 03039595-A 25 15-MAY-2003;
Inex Pharmaceuticals Corp. (CA)
Location/Qualifiers
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RESULT 8
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LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE

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Sequence 25 from Patent WO03094963.
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AX957646.1 GI:40785518
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Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

FEATURES
source

1
Tan,Y.K., Semple,S., Klimuk,S. and Chikh,G.
Methylated immunostimulatory oligonucleotides and methods of using
the same
Patent: WO 03094963-A 25 20-NOV-2003;
Inex Pharmaceuticals Corporation (CA)
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LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
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Sequence 25 from Patent WO03094828.
AX957740
AX957740.1 GI:40785558
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE
AUTHORS
TITLE
JOURNAL

1
Tan,Y.K., Semple,S., Klimuk,S. and Chikh,G.
Cancer vaccines and methods of using the same
Patent: WO 03094828-A 25 20-NOV-2003;
Inex Pharmaceuticals Corp. (CA)

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source

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LOCUS
DEFINITION
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VERSION
KEYWORDS
SOURCE

AX958145
Sequence 25 from Patent WO03094829.
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AX958145.1 GI:40785809
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE
AUTHORS
TITLE
JOURNAL

1
Semple,S., Chikh,G., Hope,M.J. and Tan,Y.K.
Pathogen vaccines and methods for using the same
Patent: WO 03094829-A 25 20-NOV-2003;
Inex Pharmaceuticals Corp. (CA)
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Db 1 GTGCTCCATTGATGC 15

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BD106498 15 bp DNA linear PAT 18-SEP-2002

LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE

BD106498
High efficiency encapsulation of charged therapeutic agents in
lipid vesicles.
BD106498
BD106498.1 GI:23201316
UP 2002501511-A/15.
Chlamydia sp.
Chlamydia sp.
Bacteria; Chlamydiae; Chlamydiales; Chlamydiaceae; Chlamydia.
1 (bases 1 to 15)
Semple,S.C., Klimuk,S.K., Harasym,T., Hope,M.J., Ansel,S.M.,
Cullis,P., Scherret,P. and Debeyer,D.S.
High efficiency encapsulation of charged therapeutic agents in
lipid vesicles
Patent: JP 2002501511-A 15 15-JAN-2002;
INEX PHARMACEUTICALS CORP
PN JP 2002501511-A/15

REFERENCE
AUTHORS
TITLE
JOURNAL

1
15-JAN-2002
PF 14-MAY-1998 UP 1998548646
PI SEAN C SEMPLE,SANDRA K KLIMUK,TROY HARASYM,MICHAEL J HOPE, PI
STEVEN M ANSEL,
PI PETER CULLIS,PETER SCHERRER,DAN SUITE DBEYER PC AGIK9/00
CC Strandedness: Single;

CC Topology: Linear; Location/Qualifiers.
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 1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15
RESULT 12
AR073978 20 bp DNA linear PAT 28-AUG-2000
LOCUS
DEFINITION Sequence 47 from patent US 5952229.
ACCESSION AR073978
VERSION AR073978.1 GI:10000738
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Monia,B.P. and Boggs,R.T.
TITLE Antisense oligonucleotide modulation of raf gene expression
JOURNAL Patent: US 5952229-A 47 14-SEP-1999;
FEATURES Location/Qualifiers
 1..20
 /organism="unknown"
 /mol_type="unassigned DNA"
ORIGIN
Query Match 100.0%; Score 15; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCTCCATTGATGC 15
 |||||
 5 GTGCTCCATTGATGC 19
Db 5 GTGCTCCATTGATGC 19
RESULT 13
AR216002 20 bp DNA linear PAT 25-SEP-2002
LOCUS
DEFINITION Sequence 49 from patent US 6410518.
ACCESSION AR216002
VERSION AR216002.1 GI:23314290
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
1 (bases 1 to 20)
AUTHORS Monia,B.P.
TITLE Antisense oligonucleotide inhibition of raf gene expression
JOURNAL Patent: US 6410518-A 49 25-JUN-2002;
FEATURES Location/Qualifiers
 1..20
 /organism="unknown"
 /mol_type="genomic DNA"
ORIGIN
Query Match 100.0%; Score 15; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCTCCATTGATGC 15
 |||||
 1 GTGCTCCATTGATGC 15

Db 5 GTGCTCCATTGATGC 19
RESULT 14
AR110776 25 bp DNA linear PAT 14-FEB-2001
LOCUS
DEFINITION Sequence 2 from patent US 6126965.
ACCESSION AR110776
VERSION AR110776.1 GI:12827624
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
1 (bases 1 to 25)
AUTHORS Kasid,U., Gokhale,P., Dritschilo,A. and Rahman,A.
TITLE Liposomes containing oligonucleotides
JOURNAL Patent: US 6126965-A 2 03-OCT-2000;
FEATURES Location/Qualifiers
 1..25
 /organism="unknown"
 /mol_type="unassigned DNA"
ORIGIN
Query Match 100.0%; Score 15; DB 6; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCTCCATTGATGC 15
 |||||
 8 GTGCTCCATTGATGC 22
Db 8 GTGCTCCATTGATGC 22
RESULT 15
AR310686 25 bp DNA linear PAT 12-JUN-2003
LOCUS
DEFINITION Sequence 2 from patent US 6559129.
ACCESSION AR310686
VERSION AR310686.1 GI:31703830
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
1 (bases 1 to 25)
AUTHORS Kasid,U., Gokhale,P., Zhang,C., Dritschilo,A. and Rahman,A.
TITLE Cationic liposomal delivery system and therapeutic use thereof
JOURNAL Patent: US 6559129-A 2 06-MAY-2003;
FEATURES Location/Qualifiers
 1..25
 /organism="unknown"
 /mol_type="genomic DNA"
ORIGIN
Query Match 100.0%; Score 15; DB 6; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCTCCATTGATGC 15
 |||||
 8 GTGCTCCATTGATGC 22
Db 8 GTGCTCCATTGATGC 22
Search completed: June 21, 2005, 02:55:37
Job time : 1681 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 20, 2005, 20:41:00 ; Search time 434 Seconds
(without alignments)
204.599 Million cell updates/sec

Title: US-10-075-994A-1

Perfect score: 15

Sequence: 1 gtgtccatgatgc 15

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_16Dec04:*
1: geneseqn1980s:*
2: geneseqn1990s:*
3: geneseqn2000s:*
4: geneseqn2001as:*
5: geneseqn2001as:*
6: geneseqn2002as:*
7: geneseqn2002bs:*
8: geneseqn2003as:*
9: geneseqn2003bs:*
10: geneseqn2003cs:*
11: geneseqn2003ds:*
12: geneseqn2004as:*
13: geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	15	100.0	15	AAVS4043	AAVS4043 Human ant
2	15	100.0	15	AAV99435	AAV99435 Antisense
3	15	100.0	15	AAZ98661	AAZ98661 Human c-r
4	15	100.0	15	AAZ22797	AAZ22797 Human c-r
5	15	100.0	15	ACC58517	ACC58517 Oligonuc1
6	15	100.0	15	ADA24233	ADA24233 Human c-r
7	15	100.0	15	ADB97458	ADB97458 Sense (AT
8	15	100.0	15	ADB97456	ADB97456 Antisense
9	15	100.0	15	ADF82830	ADF82830 Immunocli
10	15	100.0	15	ADBE90171	ADBE90171 Human c-r
11	15	100.0	15	ADG39690	ADG39690 Oligonuc1
12	15	100.0	15	ADP32025	ADP32025 Antisense
13	15	100.0	15	ADP42926	ADP42926 Methy late
14	15	100.0	15	ADL70154	ADL70154 Oligonuc1
15	15	100.0	15	ADR88950	ADR88950 Anti c-ra
16	15	100.0	20	AAZ7527	AAZ7527 Mouse/rat
17	15	100.0	20	AAZ11557	AAZ11557 Mouse and
18	15	100.0	20	AAZ73535	AAZ73535 Mouse and
19	15	100.0	20	AAZ44760	AAZ44760 Mouse/rat
20	15	100.0	20	ADP09751	ADP09751 Mouse/rat

21	15	100.0	20	10	ACD42120	ACD42120 Antisense
22	15	100.0	25	10	ADB97457	ADB97457 Oligo use
23	15	100.0	165	6	ABQ97799	ABQ97799 Mouse ES
24	15	100.0	478	9	ACH17231	ACH17231 Human adu
25	15	100.0	597	12	ACH77604	ACH77604 Human gen
26	15	100.0	968	13	ADR60510	ADR60510 Cotton cd
27	15	100.0	1038	10	ADP57946	ADP57946 Human pol
28	15	100.0	2524	10	ADB58074	ADB58074 Toxicity
29	15	100.0	2524	10	ADB52556	ADB52556 Primary r
30	15	100.0	2975	10	AAD64080	AAD64080 DNA #1 re
31	15	100.0	2975	12	ADL16251	ADL16251 Raf cDNA.
32	15	100.0	2977	2	AAT30085	AAT30085 Human Raf
33	15	100.0	2977	2	AAT61894	AAT61894 Human Raf
34	15	100.0	2977	2	AAV20439	AAV20439 Human c-r
35	15	100.0	2977	2	AAV99340	AAV99340 Human c-r
36	15	100.0	2977	2	AAV78137	AAV78137 Human c-r
37	15	100.0	2977	3	AAA48654	AAA48654 Human c-r
38	15	100.0	2977	3	AAA73552	AAA73552 Polynucle
39	15	100.0	2977	5	AAV75126	AAV75126 Human c-R
40	15	100.0	2977	6	ABL68999	ABL68999 Pancreas
41	15	100.0	2977	6	ABL57050	ABL57050 Human pro
42	15	100.0	2977	6	ABK72300	ABK72300 Lymphona
43	15	100.0	2977	6	AAI68698	AAI68698 Human c-r
44	15	100.0	2977	6	AAZ44819	AAZ44819 Human raf
45	15	100.0	2977	10	ADP18639	ADP18639 Human raf

ALIGNMENTS

RESULT 1	AAVS4043	standard; DNA; 15 BP.
ID	AAVS4043	
XX	AAVS4043;	
AC	AAVS4043;	
XX	02-DEC-1998	(first entry)
DT	02-DEC-1998	
XX	Human antisense c-raf-1 oligodeoxyribonucleotide.	
DE	Human; antisense; c-raf-1; oligodeoxyribonucleotide; ODN/oligo;	
XX	Human; tumour tissue; cancer; radiation therapy; radiosensitise; antisense;	
KW	liposome carrier system; ss.	
KM		
OS	Homo sapiens.	
XX		
XX	Key	Location/Qualifiers
FT	modified_base	1
FT		/*tag= a
FT		/note= "N-terminal base is phosphothioated"
FT	modified_base	15
FT		/*tag= b
FT		/note= "C-terminal base is phosphothioated"
XX		
PN	W09843095-A1.	
XX	01-OCT-1998.	
PD	01-OCT-1998.	
XX	19-MAR-1998;	98WO-US005303.
PF	19-MAR-1998;	
XX		
PR	21-MAR-1997;	97US-0041192P.
PR	24-OCT-1997;	97US-00957327.
XX		
PA	(GEOU) UNIV GEORGETOWN.	
XX		
PI	Kasid U, Gokhale P, Dritechilo A, Rahman A;	
DR	WPI; 1998-532155/45.	
XX		
XX	New cationic liposome composition containing raf oligodeoxynucleotide -	
PT	can be used to directly target tumour tissue and is useful in the	
PT	radiation therapy of cancers.	
XX		

PS Claim 4; Page 21; 25pp; English.

XX This is the nucleotide sequence of the human antisense c-raf-1

CC oligodeoxyribonucleotide (ODN/oligo), used in the method of the invention

CC to directly target tumour tissue, and in cancer radiation therapy. The

CC products can be used in a method of radiosensitising tumour tissue by

CC addition of an antisense oligonucleotide of maximum 40 bases containing

CC ODN/oligo. The liposome carrier system directly targets tumour tissue and

CC has the potential for use in the radiation therapy of cancers

XX

SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

XX

Query Match 100.0%; Score 15; DB 2; Length 15;

Best Local Similarity 100.0%; Pred. No. 1.1e+02;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCCATTGATGC 15

DB 1 GTGCTCCATTGATGC 15

RESULT 2

AAV99435

ID AAV99435 standard; DNA; 15 BP.

XX

AAV99435;

XX

22-MAR-1999 (first entry)

XX

DE Antisense oligonucleotide directed against c-raf-1 protein kinase gene.

XX

KM Antisense oligonucleotide; human c-raf-1 protein kinase gene;

KW phosphorothioate; phosphodiester; lipid-encapsulation; tumour;

XX aberrant gene expression; treatment; inflammation; infection; ss.

XX

OS Synthetic.

OS Homo sapiens.

XX

XX

Key Location/Qualifiers

FT modified_base 1..15

FT /tag= a

FT /note= "phosphorothioate or phosphodiester bonds"

XX

FN W09851278-A2.

XX

PD 19-NOV-1998.

XX

PF 14-MAY-1998; 98WO-CA000485.

XX

PR 14-MAY-1997; 97US-00856374.

XX

XX

PA (INEX-) INEX PHARM CORP.

XX

PI Sempke SC, Klimuk SK, Harasym T, Hope MJ, Ansell SM, Cullis P;

PI Scherrer P, Dedecker D;

XX

DR WPI; 1999-045179/04.

XX

PT Composition containing lipid-encapsulated therapeutic agent - useful,

PT e.g. for delivering antisense molecules or ribozymes or treating diseases

PT associated with aberrant gene expression.

XX

PS Disclosure; Page 23; 98pp; English.

XX

XX The present sequence represents an antisense oligonucleotide directed

CC against the human c-raf-1 protein kinase gene. The oligonucleotide can

CC have either phosphorothioate or phosphodiester bonds. The oligonucleotide

CC is lipid-encapsulated using the method of the invention. A composition

CC comprising lipid-encapsulated particles of a therapeutic agent, e.g.

CC antisense oligonucleotides, is prepared by mixing at least 2 lipid with

CC buffered aqueous solution of charged therapeutic agent to form an

CC intermediate mixture of lipid-encapsulated particles, and changing the pH

CC of the mixture to neutralise at least some of the external surface

CC charges on the particles. One lipid has a (de)protonatable group with Ka

CC such that the lipid is charged at a first pH but neutral at a second pH

CC (particularly near physiological pH) and the buffer maintains this lipid

CC in the charged form (i.e. cationic when the therapeutic agent is anionic

CC in the buffer, or vice versa). The second lipid prevents particle

CC aggregation during formation of the lipid-therapeutic agent particles.

CC The composition is used to introduce therapeutic agents into cells, in

CC vivo or in vitro, particularly to treat or prevent diseases associated

CC with aberrant gene expression in mammals, specifically tumours,

CC inflammation or infection

XX

SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

XX

Query Match 100.0%; Score 15; DB 2; Length 15;

Best Local Similarity 100.0%; Pred. No. 1.1e+02;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCCATTGATGC 15

DB 1 GTGCTCCATTGATGC 15

RESULT 3

AAZ98661

ID AAZ98661 standard; DNA; 15 BP.

XX

AAZ98661;

XX

05-JUN-2000 (first entry)

XX

DE Human c-raf-1 PK therapeutic antisense oligonucleotide sequence ATG-AS.

XX

KM Antisense oligonucleotide; phosphorothioate; inflammatory disease;

KW tumour; gene therapy; aberrant gene expression; treatment;

KW infectious disease; protein kinase C alpha; c-raf-1 protein kinase; ss.

XX

OS Homo sapiens.

OS

XX

XX

Key Location/Qualifiers

FT misc_feature 1..15

FT /tag= a

FT /note= "Optionally phosphorothioate internucleotide linkages"

XX

FN CA2271582-A1.

XX

PD 14-NOV-1999.

XX

PF 13-MAY-1999; 99CA-02271582.

XX

PR 14-MAY-1998; 98US-00078955.

XX

XX

PA (KLIM/) KLIMUK S K.

PA (HARA/) HARASYM T.

PA (HOPE/) HOPE M J.

PA (ANSEL/) ANSELL S M.

PA (CULLIS/) CULLIS P R.

PA (MOKW/) MOK W W K.

PA (SCHER/) SCHERRER P.

PA (SEMP/) SEMPLE S C.

XX

PI Klimuk SK, Harasym T, Hope MJ, Ansell SM, Cullis PR, Mok WWK;

PI Scherrer P, Sempke SC;

XX

DR WPI; 2000-225058/20.

XX

XX A method for delivering antisense oligonucleotides to cells using lipid

PT capsules comprising steric barrier lipids.

XX

PS Example 5; Page 57; 99pp; English.

XX

CC This sequence represents an antisense oligonucleotide sequence which has

CC human c-raf-1 protein kinase as its target gene. The oligonucleotide is

used in a method for delivering lipid encapsulated therapeutic agents (i.e. antisense oligonucleotides) to mammals. The lipid capsule comprises steric barrier lipids that prevent particle aggregation during lipid nucleic acid formation. The method may be used for the delivery of therapeutic agents to mammalian cells. It is especially suitable for delivering nucleic acid molecules, and in particular antisense molecules which may be administered to down regulate the expression of aberrant genes. The aberrant gene may be ICAM-1, c-myc, c-mycb, raf, erb-B-2, PKC-alpha, IGF-1R, EGFR, VEGF and/or VEG-R-1. The method may be used for the treatment of tumours, inflammatory diseases and/or infectious diseases

Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 100.0%; Score 15; DB 3; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15

RESULT 4
ID AAD22797 standard; DNA; 15 BP.
AC AAD22797;
DT 26-FEB-2002 (first entry)

Human c-raf-1 protein kinase antisense oligonucleotide, ATG-AS.

Treatment; tumour; lipid-therapeutic agent particle; sphingomyelin; diacylglycerol; phosphatidylcholine; palmitoylcholine; DSPC; POPC; 1,3-dioleoyl-sn-3-phosphoethanolamine; cholesterol; SM; DOPC; inflammation; c-raf-1 protein kinase gene; human; infectious disease; ss.

Homo sapiens.

Location/Qualifiers
Key modified_base 1..20
/*tag= a
/mod_base= OTHER
/note= "Optionally phosphorothioate backbone"

US6287591-B1.
11-SEP-2001.
14-MAY-1998; 98US-00078954.
14-MAY-1997; 97US-00856374.
(INEX-) INEX PHARM CORP.
Sempke SC, Klimuk SK, Haraasym T, Hope MD, Ansell SM, Cullis P, Scherrer P, Debeyer D;
WPI; 2002-024656/03.
Composition useful for treatment of e.g. tumors comprises particles comprising lipid portion and a charged therapeutic agent.
Disclosure; Col 15-16; 48pp; English.

The invention relates to a composition useful for treatment of e.g. tumors. The composition comprises lipid-therapeutic agent particles comprising a lipid portion and a charged therapeutic agent which is encapsulated in the lipid portion. The lipid portion comprises a first lipid component selected from lipids containing a protonatable or deprotonatable (preferably protonatable) group that has a pKa such that the lipid is in charged form at a first pH and in neutral form at a

second pH. The pKa of lipid component is from 4-11. The first lipid component is further selected such that the charged form is cationic when the therapeutic agent is anionic and vice versa; the second lipid component is selected from lipids that prevent particle aggregation during lipid-therapeutic agent particle formation and which exchange out the lipid particle at a rate greater than PEG-CerC20; third lipid component is a neutral lipid selected from diacylglycerol; phosphatidylcholine (DSPC), palmitoylcholine (POPC), 1,2-dioleoyl-sn-3-phosphoethanolamine (DOPC) or SM (sphingomyelin) and a fourth lipid component which is cholesterol. Compositions of the invention are used for treatment or prevention of a disease caused by aberrant expression of a gene preferably ICAM-1 (intracellular adhesion molecule-1), c-myc, c-mycb, raf, erb-B-2, PKC-alpha (phosphokinase C-alpha), IGF-1R (insulin growth factor 1-receptor), bcl-2, EGFR (epidermal growth factor receptor), VEGF and VEGF-R-1 (vascular endothelial growth factor receptor 1) in a mammal or by inflammations such as tumour or an infectious disease. The present sequence is an antisense oligonucleotide targeted to human c-raf-1 protein kinase gene

Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 100.0%; Score 15; DB 6; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15

RESULT 5
ID ACC58517 standard; DNA; 15 BP.
AC ACC58517;
DT 26-AUG-2003 (first entry)

Oligonucleotide ODN #25 (hc-Raf1).

Lipid nucleic acid; LNA; mucosal; vaccine; immunostimulant; human; C-Raf-s; ss.

Homo sapiens.

Location/Qualifiers
Key modified_base 1..15
/*tag= a
/mod_base= OTHER
/note= "OTHER= optional phosphorothioate nucleotides"

WO2003039595-A2.
15-MAY-2003.
07-NOV-2002; 2002WO-CA001717.
07-NOV-2001; 2001US-0337522P.
10-MAY-2002; 2002US-0379343P.
(INEX-) INEX PHARM CORP.
Sempke S, Klimuk S, Yuan Z;
WPI; 2003-493235/46.
Improved mucosal adjuvant useful in the preparation of vaccine for stimulating an immune response comprises a lipid-nucleic acid formulation containing a nucleic acid component encapsulated by a lipid.
Disclosure; Page 21; 71pp; English.

The present sequence is that of oligodeoxynucleotide ODN #25 (hc-Raf-1)

CC for human C-Raf-s. It is an example of an ODN that can be used in lipid-
CC nucleic acid (LNA) formulations of the invention comprising a lipid
CC component and a nucleic acid component. The invention is based on the
CC discovery that such LNA formulations associated with a target antigen
CC stimulate enhanced mucosal immune responses, especially Iga production,
CC directed to that target antigen in vivo as compared to the target antigen
CC alone or mixed with free or unencapsulated forms of the ODN. Claimed
CC improved mucosal vaccines comprise an LNA formulation with at least one
CC antigen, the LNA formulation comprising a lipid component that
CC encapsulates the nucleic acid component with the lipid and nucleic acid
CC components acting synergistically to stimulate antigen-specific Iga
CC production in a mammal

XX SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 100.0%; Score 15; DB 9; Length 15;
XX Best Local Similarity 100.0%; Pred. No. 1.1e+02; Mismatches 0; Gaps 0;
XX Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
1 |||||||||
1 GTGCTCCATTGATGC 15

Db

RESULT 6
ADA24233
ID ADA24233 standard; DNA; 15 BP.
XX
XX ADA24233;
XX
XX 20-NOV-2003 (first entry)
XX
XX DE Human c-raf-1 protein kinase antisense oligonucleotide SEQ ID NO:16.
XX
XX KW therapeutic oligonucleotide; double-stranded RNA; dsRNA; mobile protein;
XX cytoskeletal; immunosuppressive; virucide; anti-HIV; antibacterial;
XX cardiant; hyperproliferation; cancer; haematological; metastatic;
XX autoimmune disease; infection; endocrine; neural; cardiovascular;
XX pulmonary; reproductive system disorder; endocytosis; metabolic process;
XX murine; intracellular adhesion molecule 1; ICAM-1;
XX antisense oligonucleotide; phosphorothioate; ss.
XX
XX OS Synthetic.
XX OS Homo sapiens.
XX
XX FH Key Location/Qualifiers
XX FT modified_base 1..15
FT /*tag= a
FT /mod_base= OTHER
FT /note= "optionally phosphorothioate backbone"
XX
XX PN WO2003069306-A2.
XX
XX PD 21-AUG-2003.
XX
XX PF 13-FEB-2003; 2003WO-US004323.
XX
XX PR 13-FEB-2002; 2002US-0356053P.
XX
XX PA (MEDB-) MEDBRIDGE INC.
XX
XX PI Xie D;
XX
XX WP1; 2003-646491/61.
XX
XX DR Treating diseases with oligonucleotides or interfering RNA, useful e.g.
XX PT for cancer or autoimmune diseases, covalently coupled to mobile proteins,
XX in vivo or in vitro.
XX
XX PS Claim 128; Page 12; 42pp; English.
XX
XX CC The present invention describes a method for treating a disease by
XX administering: (a) a therapeutic oligonucleotide (TON) or double-stranded

CC RNA (dsRNA) that includes a reactive group (RG) that can react with a
CC mobile protein (MP) to form a covalent conjugate of TON/dsRNA and MP; or
CC (b) TON or dsRNA already conjugated to MP through a covalent bond. Also
CC described: (1) TON of 15-30 bases that includes (1) a part that binds to
CC target RNA or DNA and (11) RG; (2) TON of 15-30 bases that includes a
CC part that binds to target RNA or DNA and is conjugated to MP through a
CC covalent link; (3) dsRNA that includes RG; and (4) dsRNA that is
CC conjugated to MP through a covalent link. TON have cytostatic,
CC immunosuppressive, virucide, anti-HIV, antibacterial and cardiant
CC activities. The method is used to treat, or prevent, hyperproliferation
CC (particularly cancers, solid or haematological, including prevention of
CC metastatic spread); autoimmune diseases; viral or bacterial infections;
CC endocrine, neural, cardiovascular, pulmonary or reproductive system
CC disorders. Also where TON or dsRNA are labelled, they can be used for
CC diagnosis and monitoring of therapy. When linked to a mobile protein,
CC TON/dsRNA have better cell entry (via endocytosis or other parts of the
CC mobile protein metabolic process) and longer therapeutic life, increased
CC from hours to weeks (the result of increased resistance to nuclease),
CC without loss of affinity for the target. In many cases immune response to
CC TON/dsRNA is also reduced, as is non-specific binding to endogenous
CC proteins. The present sequence represents a human C-Raf-1 antisense
CC oligonucleotide, which is a specifically claimed TON from the present
CC invention.

XX SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 100.0%; Score 15; DB 9; Length 15;
XX Best Local Similarity 100.0%; Pred. No. 1.1e+02; Mismatches 0; Gaps 0;
XX Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCTCCATTGATGC 15
1 |||||||||
1 GTGCTCCATTGATGC 15

Db

RESULT 7
ADB97458/C
ID ADB97458 standard; DNA; 15 BP.
XX
XX AC ADB97458;
XX
XX DT 04-DEC-2003 (first entry)
XX
XX DE Sense (ATG-S) raf ODN oligodeoxyribonucleotide.
XX
XX KW antisense; ATG-S; raf ODN; chemosensitisation; tumour tissue;
XX chemotherapeutic agent; cationic liposome; cationic lipid;
XX phosphatidylcholine; cholesterol; liposome;
XX dimethyldioctadecyl ammonium bromide; DDAB;
XX dimyristoyl trimethyl ammonium propane; DM7AP; phosphatidylcholine; PC;
XX cholesterol; cancer; leukaemia; lymphoma; myeloma; carcinoma; sarcoma;
XX combination therapy; pre-cancerous lesion; chemotherapy; ss.
XX
XX OS Unidentified.
XX
XX OS WO2003070221-A1.
XX
XX PN 28-AUG-2003.
XX
XX PD 14-FEB-2003; 2003WO-US004681.
XX
XX PR 15-FEB-2002; 2002US-00075994.
XX
XX PA (GEOU) UNIV GEORGETOWN.
XX PA (NEOP-) NEOPHARM INC.
XX
XX PI Kasid U, Gokhale P, Pei J, Mewani R, Ahmad I, Drischilo A;
XX Rahman A;
XX
XX WP1; 2003-689738/65.
XX
XX DR Chemosensitization of tumor tissue, useful for treating cancer, e.g.
XX PT leukemia, lymphoma or myeloma, comprises administering a chemotherapeutic

PT agent and cationic liposomes containing oligonucleotides.
XX
PS Example 1; Page 18; 77pp; English.
XX
CC The invention relates to a novel method for the chemosensitisation of
CC tumour tissue, comprising administering a chemotherapeutic agent and a
CC composition comprising cationic liposomes consisting of cationic lipid,
CC phosphatidylcholine and cholesterol, where oligonucleotide(s) are
CC encapsulated within the liposome. The invention further relates to a
CC composition comprising liposomes consisting essentially of a cationic
CC lipid like dimethyldioctadecyl ammonium bromide (DDAB) or dimyristoyl
CC trimethyl ammonium propene (DMTAP), phosphatidylcholine (PC),
CC cholesterol, and containing the sequence 5'-GTGCTCCATTGATGC-3', where
CC only the terminal sequences are phosphorothioated. The method is useful
CC for chemosensitisation of a tumour tissue or cancer, including leukaemia,
CC lymphoma, myeloma, carcinoma or sarcoma. The combination therapy may be
CC used for any stage of cancer ranging from pre-cancerous lesions to cancer
CC of advanced stages. This polynucleotide sequence represents the sense
CC (ATG-S) raf ODN oligodeoxyribonucleotide, a cationic liposome of the
CC invention.
XX
SQ Sequence 15 BP; 5 A; 4 C; 4 G; 2 T; 0 U; 0 Other;
XX
Query Match 100.0%; Score 15; DB 10; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCTCCATTGATGC 15
Db 15 GTGCTCCATTGATGC 1
XX
RESULT 8
ID ADB97456 standard; DNA; 15 BP.
AC ADB97456;
XX
XX 04-DEC-2003 (first entry)
XX
DE Antisense (ATG-AS) raf ODN oligodeoxyribonucleotide.
XX
XX antisense; ATG-AS; raf ODN; chemosensitisation; tumour tissue;
XX chemotherapeutic agent; cationic liposome; cationic lipid;
XX phosphatidylcholine; cholesterol; liposome;
XX dimethyldioctadecyl ammonium bromide; DDAB;
XX dimyristoyl trimethyl ammonium propene; DMTAP; phosphatidylcholine; PC;
XX cholesterol; cancer; leukaemia; lymphoma; myeloma; carcinoma; sarcoma;
XX combination therapy; pre-cancerous lesion; chemotherapy; ss.
XX
XX Unidentified.
OS
XX WO2003070221-A1.
PN
XX 28-AUG-2003.
PD
XX 14-FEB-2003; 2003WO-US004681.
PF
XX 15-FEB-2002; 2002US-00075994.
PR
XX (GBOU) UNIV GEORGETOWN.
PA (NEOP-) NEOPHARM INC.
XX
XX Kasid U, Gokhale P, Pei J, Mewani R, Ahmad I, Drischilo A;
PI Rahman A;
XX
XX WPI; 2003-689738/65.
DR
XX
XX Chemosensitization of tumor tissue, useful for treating cancer, e.g.
PT leukemia, lymphoma or myeloma, comprises administering a chemotherapeutic
PT agent and cationic liposomes containing oligonucleotides.
XX
XX Example 1; Page 18; 77pp; English.
PS

XX
CC The invention relates to a novel method for the chemosensitisation of
CC tumour tissue, comprising administering a chemotherapeutic agent and a
CC composition comprising cationic liposomes consisting of cationic lipid,
CC phosphatidylcholine and cholesterol, where oligonucleotide(s) are
CC encapsulated within the liposome. The invention further relates to a
CC composition comprising liposomes consisting essentially of a cationic
CC lipid like dimethyldioctadecyl ammonium bromide (DDAB) or dimyristoyl
CC trimethyl ammonium propene (DMTAP), phosphatidylcholine (PC),
CC cholesterol, and containing the sequence 5'-GTGCTCCATTGATGC-3', where
CC only the terminal sequences are phosphorothioated. The method is useful
CC for chemosensitisation of a tumour tissue or cancer, including leukaemia,
CC lymphoma, myeloma, carcinoma or sarcoma. The combination therapy may be
CC used for any stage of cancer ranging from pre-cancerous lesions to cancer
CC of advanced stages. This polynucleotide sequence represents the antisense
CC (ATG-AS) raf ODN oligodeoxyribonucleotide, a cationic liposome of the
CC invention.
XX
SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
XX
Query Match 100.0%; Score 15; DB 10; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15
XX
RESULT 9
ID ADF82830 standard; DNA; 15 BP.
AC ADF82830;
XX
XX 26-FEB-2004 (first entry)
XX
DE Immunostimulant ODN25, component of lipid-nucleic acid vaccine.
XX
XX Immunostimulant; vaccine; lipid-nucleic acid; phosphorothioate; human;
XX C-Raf-S; ss.
XX
XX Synthetic.
OS
OS Homo sapiens.
XX
XX Key location/Qualifiers
FT modified_base 1..15
FT /*tag= a
FT /mod_base= OTHER
FT /note= "OTHER= optional phosphorothioate nucleotides"
XX
XX WO2003094829-A2.
PN
XX 20-NOV-2003.
PD
XX 12-MAY-2003; 2003WO-CA000680.
PF
XX 10-MAY-2002; 2002US-0379343P.
PR 07-NOV-2002; 2002US-00290545.
PR 12-MAR-2003; 2003US-0454298P.
XX
XX (INEX-) INEX PHARM CORP.
PA
XX
XX Semple S, Chikh G, Hope MJ, Tam YK;
PI WPI; 2003-903935/82.
XX
XX
XX New pathogen vaccine having a lipid-nucleic acid formulation in
PT combination with at least one microbial antigen, useful for stimulating
PT enhanced responses against bacterial, viral and parasitic infections.
XX
XX Disclosure; SEQ ID NO 25; 138pp; English.
PS

CC The present sequence is that of ODN25 (C-Raf-s) for human C-Raf-s. This
CC is an immunostimulatory oligonucleotide that can be used in lipid-nucleic
CC acid (LNA) vaccines of the invention. Claimed vaccines comprise an LNA
CC formulation in combination with at least one microbial antigen, such as
CC hepatitis B virus surface antigen. The lipid component of the LNA
CC comprises at least one cationic lipid. The oligonucleotide component of
CC the LNA preferably comprises at least one CpG dinucleotide, a methylated
CC cytosine and a phosphorothioate backbone. The vaccine is capable of
CC stimulating Th1 type humoral and cellular immune responses. An enhanced
CC humoral response is demonstrated by a strong early peak of interferon-
CC gamma production observed within hours of vaccine followed by a second
CC stronger peak of interferon-gamma production observed several days later,
CC correlated with antibody isotype switching.

XX Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 100.0%; Score 15; DB 10; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCCATTGATGC 15
|||
1 GTGCTCCATTGATGC 15

RESULT 10
ADE90171

ID ADE90171 standard; DNA; 15 BP.

AC ADE90171;

DT 12-FEB-2004 (first entry)

DE Human c-raf-1 protein kinase antisense oligonucleotide.

XX ss; lipid-encapsulated therapeutic agent particle;
KW aberrant gene expression; intercellular adhesion molecule; ICAM-1; c-myc;
KW c-myc; ras; raf; erb-B-2; protein kinase C; PKC-alpha;
KW insulin-like growth factor; IGF-IR; epidermal growth factor receptor;
KW EGFR; vascular endothelial growth factor; VEGF; VEGF-R-1; tumour;
KW inflammation; infection; antisense; human.

OS Homo sapiens.

PN US2003129221-A1.

PD 10-JUL-2003.

PF 29-JUN-2001; 2001US-00895480.

PR 14-MAY-1997; 97US-00856374.

PR 14-MAY-1998; 98US-00078954.

XX (SEMP/) SEMPLE S C.

PA (KLIM/) KLIMUK S K.

PA (HARA/) HARASYM T.

PA (HOPE/) HOPE M J.

PA (ANSEL/) ANSELL S M.

PA (CULL/) CULLIS P.

PA (SCHE/) SCHERRER P.

PA (DEBE/) DEBEYER D.

PI Semple SC, Klimuk SK, Harasym T, Hope MJ, Ansell SM, Cullis P;

PI Scherrer P, Debever D;

DR WPI; 2004-031296/03.

XX Preparation of a composition comprising lipid-encapsulated therapeutic
XX agent particles, useful for introducing a nucleic acid into a cell and
XX for treating diseases characterized by aberrant gene expression.

XX Disclosure; SEQ ID NO 15; 52bp; English.

CC The invention relates to a method of preparation of a composition
CC comprising lipid-encapsulated therapeutic agent particles. The
CC composition is useful for introducing a nucleic acid into a cell and for
CC treating diseases characterized by aberrant gene expression (especially
CC intercellular adhesion molecule (ICAM)-1, c-myc, c-myc, ras, raf erb-B-2,
CC protein kinase C (PKC)-alpha, insulin-like growth factor (IGF)-IR,
CC epidermal growth factor receptor (EGFR), vascular endothelial growth
CC factor (VEGF) or VEGF-R-1), e.g. tumours, inflammation or infection. The
CC present sequence represents an antisense oligonucleotide.

XX Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 100.0%; Score 15; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTGCTCCATTGATGC 15
|||
1 GTGCTCCATTGATGC 15

RESULT 11
ADE39690

ID ADE39690 standard; DNA; 15 BP.

AC ADE39690;

DT 12-FEB-2004 (first entry)

DE Oligonucleotide ODN 25 (nc-Raf-1) SEQ ID NO:25.

XX cancer; vaccine; lipid-nucleic acid; LNA; tumour-associated antigen;

XX Th-1 based immune response; cytostatic; gene therapy;

XX tumour growth inhibition; tumour; human; ss.

XX Synthetic.

OS Homo sapiens.

PN Key Location/Qualifiers

FT modified_base 1..15

FT /*tag= a

FT /mod_base= OTHER

FT /note="optionally phosphorothioate linkages"

PN WO2003094828-A2.

PD 20-NOV-2003.

PF 12-MAY-2003; 2003WO-CA000679.

PR 10-MAY-2002; 2002US-0379343P.

PR 07-NOV-2002; 2002US-00290545.

PR 04-APR-2003; 2003US-0460646P.

XX (INEX-) INEX PHARM CORP.

PA Tam YK, Semple S, Klimuk S, Chikh G;

PA WPI; 2004-011992/01.

XX New cancer vaccine having a lipid-nucleic acid formulation in combination
XX with at least one tumor-associated antigen, useful for stimulating
XX enhanced responses against tumor-associated antigens and for inhibiting
XX tumor growth.

XX Example 9; SEQ ID NO 25; 119bp; English.

XX The present invention describes a cancer vaccine (1), which comprises a
XX lipid-nucleic acid (LNA) formulation in combination with at least one
XX tumour-associated antigen that is mixed with or associated with the LNA
XX formulation comprising a lipid component having at least one cationic
XX lipid, and a nucleic acid component comprising at least one
XX oligonucleotide, where the vaccine is capable of stimulating a Th-1 based

immune response in vivo to the at least one tumour-associated antigen.
CC (1) has cytostatic activity, and can be used in vaccines, and in gene
CC therapy. The methods and compositions of the present invention can be
CC used for stimulating enhanced responses against tumour-associated
CC antigens and for inhibiting tumour growth. The present sequence
CC represents an oligonucleotide which is used in the exemplification of the
CC present invention.

XX
SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
Query Match 100.0%; Score 15; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 12
ADF32025
ID ADF32025 standard; DNA, 15 BP.
XX
XX ADF32025;
XX
XX 26-FEB-2004 (first entry).
XX
XX Antisense oligonucleotide of the invention.
XX
XX platelet; oligonucleotide; Thrombolytic; thrombocytosis; ss.
XX
XX Synthetic.
XX
XX MO2003099213-A2.
XX
XX 04-DEC-2003.
XX
XX 19-MAY-2003; 2003WO-US015922.
XX
XX 20-MAY-2002; 2002US-0382411P.
XX
XX (NEOP-) NEOPHARM INC.
XX
XX Gately ST;
XX
XX WPI; 2004-035033/03.
XX
XX Reducing the platelet count in a patient, useful for treating
XX thrombocytosis, comprises administering antisense oligonucleotides
XX inhibiting raf-1 gene with an agent that enhances penetration of the
XX oligonucleotide into cells.
XX
XX Example 1; SEQ ID NO 1; 14pp; English.
XX
XX The present invention relates to reducing the platelet count in a patient
XX comprises preparing a formulation of an oligonucleotide with an agent
XX that enhances penetration of the oligonucleotide into cells, and
XX administering the formulation to a patient having an elevated platelet
XX count. The oligonucleotide is useful for preparing a medication for
XX reducing the platelet count in a patient, particularly for treating
XX thrombocytosis. The present sequence represents an oligonucleotide of the
XX invention.

XX
SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
Query Match 100.0%; Score 15; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 13
ADF42926
ID ADF42926 standard; DNA, 15 BP.
XX
XX ADF42926;
XX
XX 11-MAR-2004 (first entry)
XX
XX Methylated immunostimulatory oligonucleotide ODN 25 SEQ ID NO:25.
XX
XX lipid-methylated nucleic acid formulation; immune response;
XX lipid-nucleic acid; vaccine; immunostimulant; cytostatic;
XX antiinflammatory; antiarthritic; gene therapy; cancer; inflammation;
XX arthritis; immunodeficiency disorder;
XX methylation immunostimulatory oligonucleotide; ss.
XX
XX Synthetic.
XX
XX MO2003094963-A2.
XX
XX 20-NOV-2003.
XX
XX 12-MAY-2003; 2003WO-CA000678.
XX
XX 10-MAY-2002; 2002US-0379343P.
XX
XX 07-NOV-2002; 2002US-00290545.
XX
XX 04-APR-2003; 2003US-0460646P.
XX
XX (INEX-) INEX PHARM CORP.
XX
XX Tam YK, Sempé S, Klimuk S, Chikh G;
XX
XX WPI; 2004-142698/14.
XX
XX lipid-methylated nucleic acid formulation for stimulating an immune
XX response in an animal comprises a lipid component and a nucleic acid
XX component comprising a methylated nucleic acid sequence.

XX
PS Disclosure; SEQ ID NO 25; 102pp; English.
XX
XX The present invention describes a lipid-methylated nucleic acid
XX formulation for stimulating an immune response in an animal, comprising a
XX lipid component and a nucleic acid component which is a methylated
XX nucleic acid sequence. Also described: (1) an adjuvant comprising a lipid
XX nucleic acid (LNA) formulation; (2) a vaccine comprising the LNA
XX formulation in combination with at least one target antigen; (3)
XX stimulating an enhanced host immune response to antigenic stimulation,
XX comprising administering to the host the LNA formulation; (4) stimulating
XX host dendritic cells in vivo, comprising contacting at least one
XX dendritic cell with the lipid-methylated nucleic acid formulation to a
XX host; and (5) simultaneously delivering antigenic and adjuvant immune
XX stimulation to antigen presenting cells, comprising the administration of
XX the LNA formulation associated with a target antigen. The lipid-
XX methylation nucleic acid formulation has immunostimulant, cytostatic,
XX antiinflammatory and antiarthritic activities, and can be used in
XX vaccines, and in gene therapy. The formulation and methods are useful in
XX stimulating a host's immune response to antigenic stimulation, or in
XX activating and/or expanding dendritic cell populations in response to
XX antigenic stimulation. They may be used for treating cancer,
XX inflammation, arthritis or immunodeficiency disorders. The present
XX sequence represents a methylated immunostimulatory oligonucleotide given
XX in the exemplification of the present invention.

XX
SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
Query Match 100.0%; Score 15; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTGCTCCATTGATGC 15
1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15

RESULT 14
ADL70154
ID ADL70154 standard; DNA; 15 BP.
XX
AC ADL70154;
XX
DT 20-MAY-2004 (first entry)
XX
DE Oligonucleotide antisense to raf.
XX
KM Raf; antisense; liposome; drug delivery; cytostatic; ss.
XX
OS Synthetic.
XX
PN WO2004017944-A1.
XX
PD 04-MAR-2004.
XX
PF 13-AUG-2003; 2003MO-US025293.
XX
PR 23-AUG-2002; 2002US-0405378P.
XX
PA (NEOP-) NEOPHARM INC.
XX
PI Zhang J, Ahmad I;
XX
DR WPI; 2004-257219/24.
XX
PT Treatment of cellular proliferative disease e.g. cancer involves
PT administration of a composition comprising liposomal gemcitabine and
PT negatively charged phospholipid.
XX
PS Disclosure; SEQ ID NO 1; 25pp; English.
XX
CC The present sequence is that of an antisense oligonucleotide to raf. The
CC invention relates to novel gemcitabine compositions and their use in
CC treating proliferative diseases such as cancer, particularly in mammals,
CC especially in humans. The compositions include liposome-entrapped
CC gemcitabine. The cancer is especially lymphoma, ovarian cancer, breast
CC cancer, pancreatic cancer, lung cancer or colon cancer. The liposomal
CC gemcitabine compositions can be used in conjunction with secondary
CC therapeutic agents including antineoplastic, antifungal and antibiotic
CC agents as well as antisense oligonucleotides, especially an antisense
CC oligonucleotide to raf (Claimed).
XX
SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
XX
Query Match 100.0%; Score 15; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15
XX
RESULT 15
ADR88950
ID ADR88950 standard; DNA; 15 BP.
XX
AC ADR88950;
XX
DT 18-NOV-2004 (first entry)
XX
DE Anti c-raf-1 oligonucleotide.
XX
KM C-raf-1; liposomal; antineoplastic; cytostatic; cancer; antisense; ss.
XX
OS Synthetic.
XX
PN WO2004071466-A2.

XX
PD 26-AUG-2004.
XX
PF 11-FEB-2004; 2004MO-US004555.
XX
PR 11-FEB-2003; 2003US-0446895P.
XX
PA (NEOP-) NEOPHARM INC.
XX
PI Bhamidipati S, Ahmad Z, Ahmad I;
XX
DR WPI; 2004-635030/61.
XX
PT Preparation of liposomal composition used for treating e.g. cancer
PT involves dissolving lipid fraction in water miscible organic solvent and
PT mixing solvent solution with aqueous solution.
XX
PS Disclosure; Page 6; 27pp; English.
XX
CC The invention relates to the preparation of a liposomal composition. The
CC method involves: dissolving a lipid fraction in a water-miscible organic
CC solvent; and mixing the water-miscible organic solvent solution
CC comprising the lipid fraction with an aqueous solution under conditions
CC to form a bulk liposomal composition. The method further involves adding
CC at least one active principal to the water-miscible organic solvent prior
CC to the addition of the lipid fraction, or to the aqueous solution prior,
CC during or after the step (b), size-reducing the bulk liposomal
CC composition to obtain a size-reduced liposomal composition, freeing the
CC liposomal composition of the water-miscible organic solvent by
CC diafiltration using a tangential flow filtration process and freeze-drying
CC the liposomal preparation. Step (b) involves adding the water-miscible
CC organic solvent solution to the aqueous solution while mixing and mixing
CC or solution following addition of water-miscible solvent comprising the
CC lipid fraction to the aqueous solution while cooling. The active
CC principal comprises at least one antineoplastic or antifungal agent
CC (preferably taxane, camptothecin or their derivatives, especially
CC paclitaxel or docetaxel). The composition is used for the treatment of
CC disease e.g. cancer. The composition eliminates the effects of the disease,
CC symptoms, need not completely eradicate the effects of the disease,
CC reduces the severity of a disease, infection or reduction in the rate by
CC which a disease progresses within a patient. The method permits the
CC production of liposomal formulation on a commercial scale. The present
CC sequence represents an antisense oligonucleotide specific for c-raf-1,
CC that can be used as an active principal.
XX
SQ Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
XX
Query Match 100.0%; Score 15; DB 13; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCTCCATTGATGC 15
Db 1 GTGCTCCATTGATGC 15
XX
Search completed: June 21, 2005, 02:27:28
Job time : 438 secs